Delaval, Jan

From:

Evans, Linda

Sent:

Wednesday, October 02, 2002 3:51 PM

To:

Delaval, Jan

Subject:

Jan:

I have finished the search, and printing the results. I did not see any of the chemicals in your list -- most compounds mentions were sodium-something. This is package I have ready to deliver:

Registration information and status info (TRAM) for Day White, Nite White, and Opalescence.

Registration records for selected registrations owned by Discus Dental and Ultradent, which have the word white 2.

or bright or syringe in the list of goods and services.

The hit list for all registrations and applications owned by the two companies. The hit list gives the name of trademark. The columns in the hit list are as follows: Serial Number, Registration Number (if blank, never achieved registration or still pending), D (dead, otherwise it is live and active), r in the circle indicates it is registered (the registration number also indicates it was registered), and the name. If the name field is blank, the trademark is a design only mark and contains no words. (On some hit lists I have enclosed, there is a "V", a "t", or an "i". That stands for "viewed", viewed "text", or viewed "image". It simply means I looked at the record.)

TRAM records. Lots of legal terms in the prosecution history. "Abandoned - Failure to respond" means that the applicant did not reply to an office action, and after six months, the application is abandoned. "Cancelled Section 8" means that the owner did not file the required Section 8 affidavit indicating the mark was still in use 6 years after registration. "Expired" indicates the owner did not renew the registration (trademarks may be renewed forever, the current term is 10 years between renewals).

X-Search records: The Goods and Services (GS) field also indicates the International Class (IC) and date of use. I started out searching IC 3 because that is dentifrice and toothpaste. But syringes are in IC 10 (medical), and a lot of records seemed to have IC 5 (pharmaceutical, etc) in them. So, I ended up searching all three international classes (the classes are very broad subject categories -- much easier than patent classification!

Date of first use and Date first used in commerce. The date of first use is the date the trademark was used anywhere. The date first used in commerce is the date "it" crossed state lines and was used in interstate commerce. The trademark must have been used in interstate commerce before it will be registered by the USPTO. A catch-22 situation -- the applicant puts a lot of money on the line for a brand name, and if the USPTO refuses to register, all that money could be lost. ITU stands for "intent to use". Applicants may file a trademark application if they intend to use the trademark, but are not currently using it. The allowance is for six months, and may be requested 2 more times, for a total of 18 months. This acts an informal way to "reserve" a name (there are additional fees). Since the applicant does not have an actual date of use in commerce, the filing date acts as a date of first use for our examiners. Trademark law says whoever used it first, gets priority. Some ITU applications are abandoned because the mark was never used in commerce.

I think the rest of the fields are self explanatory.

I am attaching a copy of my search strategy. The \$ is our truncation character. [bi,ti] is the field designator for the name field, [gs] for goods and services, [ic] for international class, and [on] for owner name. The rest is standard Boolean logic.

I hope that these records provide some background, if not the actual information Examiner Rose may need. Please give me a call or an email if there are any questions!



Linda Evans Librarian Trademark Search Library 703-308-9855

----Original Message-----

From:

Delaval, Jan

Sent:

Wednesday, October 02, 2002 12:37 PM

To:

Evans, Linda

Subject:

Linda -

This is already very helpful. I doubt that the trademark records would describe the particular components, but if you need such details, one compartment must contain a peroxide / percarbonate / perborate / persulfonate of some kind, most preferably hydrogen peroxide or urea peroxide or carbamic peroxide.

I won't be at the office tomorrow, and perhaps not Friday, either. I have a friend who will undergo surgery, and I am taking her to the hospital where I will wait for her to be released, and then will take her home with me to care for her until Sunday. She lives alone, is undergoing eye surgery, and will have patches on her eyes (an we think we have difficulties...).

Please don't go out of your way! If your bus does stop in front of CM-1, then I would appreciate your leaving the envelope whenever you can. You can ask for Paula Sheppard, my colleague, whose office is quite close to mine; she will be glad to help. Otherwise, just send it via the internal mail service. I'm just disappointed that I won't have the pleasure of meeting you this time.

Thank you again so very much for your good care and fine help. Have a great day, Linda!

Jan

----Original Message-----

From: Evans, Linda

Sent: Wednesday, October 02, 2002 10:23 AM

To: Delaval, Jan

Subject: RE:

Jan:

I still have a lot of work to do on this request. I have meetings and desk until 3:00PM, so I doubt I will be able to get the results to you today. I should be able to drop them off Thursday on my way in to work (my bus stops at ČM-1).

In the meantime, I have searched Discus Dental and Ultradent as owners of trademarks. I viewed these records. Thje goods and services field is very vague "cosmetic tooth whitener", etc. so I have no idea if any of these consist of two compounds and two compartments. Discuss Dental (new name Discus Dental Impressions) (Day White, RN 2,202,653) indicates the first use was 19971103. For Night White (RN 1,746,277), the first use was 19920703. For Últradent and "Opalescence", the oldest date I can find (RN 1,662,181) is 19900514. Again, I need to stress that the data in the record lists only "toothpaste" or "whitener" and may not be what you are looking for.

More later.

Linda Evans Librarian Trademark Search Library 703-308-9855

----Original Message----

From: Delaval, Jan

Sent: Tuesday, October 01, 2002 5:34 PM

To: Evans, Linda

Subject: FW:

Linda -

The Discus Dental web site uses "NITE WHIGHT" or "NITEWHIGHT" for their product.

Jan

----Original Message----

From: Delaval, Jan

Sent: Tuesday, October 01, 2002 5:03 PM

To: Evans, Linda

Subject:

Hi Linda -

Here is the trademark search request for Examiner Shep Rose, TC 1600, AU 1614 (308-4609):

DAY WHITE or DAYWHITE

NIGHT WHITE or NIGHTWHITE (Discus Dental)

OPALESCENCE (Ultradent or Ultra Dent)

These are dentifrice, or tooth paste, toothpaste, tooth gel, tooth cream, mouthwash, mouthrinse, mouth wash, mouth rinse, oral or dental care compositions, oral or dental hygiene compositions, etc....

Please make your search strategy as comprehensive as possible.

My phone number is 308-4498, fax number 308-4496.

Thank you so very much for your good help! I enjoyed speaking with you!

Jan

| *** | User: 1 | evans | *** | | | | • |
|-----|---------|-------|--------|---------------|---------|----------|-------------------------|
| # | Total | Dead | Live | Live | Printed | Status/ | Search |
| | Marks | Marks | Viewed | Viewed | | Search | |
| | | | Docs | Images | | Duration | |
| 01 | 2 | 1 | 1 | 0 | 0 | 0:01 | "day white"[bi,ti] or |
| | | | | | | | daywhite[bi,ti] |
| 62 | 1 | 0 | 1 | 0 | 0 | 0:01 | "night white"[bi,ti] or |
| | | | | | | | nightwhite[bi,ti] |
| 03 | 6 | 2 | 4 | 1 | 0 | 0:01 | opalescence[bi,ti] |
| 04 | 4564 | N/A | 0 | 0 | 0 | 0:01 | (white or whyte or |
| | | | | | | | whight) [bi,ti] |
| 05 | 3035 | H/A | 0 | 0 | 0 | 0:01 | (night or nite or |
| | | | | | | | nyte) [bi,ti] |
| 06 | 5090 | H/A | 0 | . 0 | 0 | 0:01 | day[bi,ti] |
| 07 | 73 | 19 | 3 | 0 | 0 | 0:01 | "Discus dental"[on] |
| 80 | 174 | 56 | 0 | 0 | 0 | 0:01 | ultradent[on] or "ultra |
| | | | | | | | dent" [on] |
| 09 | 9982 | H/A | 0 | 0 | 0 | 0:03 | whit\$[gs] or |
| | | | | | | | bleach\$[gs] |
| 10 | 3029 | N/A | 0 | 0 | 0 | 0:02 | syring\$[gs] |
| 11 | 136275 | N/A | 0 | 0 | 0 | 0:02 | "003" [ic] |
| 12 | 145071 | N/A | 0 | 0 | 0 | 0:02 | "005" [ic] |
| 13 | 69055 | H/A | 0 | 0 | 0 | 0:02 | "010" [ic] |
| 14 | 336229 | n/A | 0 | 0 | 0 | 0:02 | 11 or 12 or 13 |
| 15 | 12952 | n/A | 0 | 0 | 0 | 0:01 | 9 or 10 |
| 16 | 8225 | H/A | 0 | 0 | 0 | 0:01 | 14 and 15 |
| 17 | 14 | 5 | 9 | 2 | 1 | 0:01 | 7 and 16 |
| 18 | 81 | 31 | 50 | 13 | 0 | 0:01 | 8 and 16 |
| 19 | 59 | H/A | 0 | 0 | 0 | 0:01 | 9 and 10 |
| 20 | 5665 | H/A | 0 | 0 | 0 | 0:01 | 9 and 14 |

Session started 10/2/02 3:09:26 PM Current time 10/2/02 3:17:04 PM Total search duration 0 minutes 27 seconds

Session duration 7 minutes 38 seconds

Default NEAR limit= 1 ADJ limit= 1

Send to TICRS Copies 1 Print Print / End session Cancel

*** User: levans ***

| # | Total Marks | Dead Marks | Live Viewed Docs | Livė Viewed Images | Status/ Search Duration | Search |
|----|----------------|---------------|------------------------|--------------------------|-------------------------------|--|
| 01 | 2 | 1 | 1 | 0 | 0:01 | <pre>"day white"[bi,ti] or daywhite[bi,ti]</pre> |
| 02 | 1 | 0 | 1 | 0 | 0:01 | <pre>"night white"[bi,ti] or nightwhite[bi,ti]</pre> |
| 03 | 6 | 2 | 4 | 1 | 0:01 | opalescence[bi,ti] |
| 04 | 4564 | N/A | 0 | 0 | 0:01 | <pre>(white or whyte or whight)[bi,ti]</pre> |
| 05 | 3035 | N/A | 0 | 0 | 0:01 | <pre>(night or nite or nyte)[bi,ti]</pre> |
| 06 | 5090 | N/A | 0 | 0 | 0:01 | day[bi,ti] |
| 07 | 73 | 19 | 3 | 0 | 0:01 | "Discus dental"[on] |
| 80 | 174 | 56 | 0 | 0 | 0:01 | <pre>ultradent[on] or "ultra dent"[on]</pre> |
| 09 | 9982 | N/A | 0 | 0 | 0:03 | whit\$[gs] or bleach\$[gs] |
| 10 | 3029 | N/A | 0 | . 0 | 0:02 | syring\$[gs] |
| 11 | 136275 | N/A | 0 | . 0 | 0:02 | "003"[ic] . |
| 12 | 145071 | N/A | .0 . | 0 | 0:02 | "005"[ic] |
| 13 | 69055 | N/A | 0 | 0 | 0:02 | "010"[ic] |
| 14 | 336229 | N/A | 0 | 0 | 0:02 | 11 or 12 or 13 |
| 15 | 12952 | N/A | 0 | 0 | 0:01 | 9 or 10 |
| 16 | 8225 | N/A | 0 | 0 | 0:01 | 14 and 15 |
| 17 | 14 | 5 | 9 | 2 | 0:01 | 7 and 16 |
| 18 | 81 | 31 | 50 | 13 | 0:01 | 8 and 16 |
| 19 | 59 | N/A | 0 | . 0 | 0:01 | 9 and 10 |
| 20 | 5665 | N/A | 0 | 0 | 0:01 | 9 and 14 |

Session started 10/2/02 3:09:26 PM Session finished 10/2/02 3:17:36 PM Total search duration 0 minutes 27 seconds Session duration 8 minutes 10 seconds

Default NEAR limit = 1 ADJ limit = 1

Display of Hit List

| # | Hits | Live | Dead | Tagged | Printed | Pl. | Search term |
|----|------|--------|-------------|--------|---------|-----|--|
| 08 | 174 | Viewed | Marks 56 | • | | | <pre>ultradent[on] or "ultra dent"[on]</pre> |

| # | Serial Re | egnum Sta | atus | |
|-------|-----------|-----------|---|---------------------|
| 1 | 78140983 | | | UPIPRECISION |
| | 78140463 | | | ULTRADENT ULTRASEAL |
| 3 | 76380349 | | | ULTRA-LUME |
| 4 | 76081840 | | | OPAQUE WHITE |
| 5 | 76080741 | 2626056 | ® | NAVITIP |
| 6 | 76081834 | 2621996 | ® | TRANS FROST |
| 7 | 76081863 | | | PEARL AMBER |
| | | 2613271 | ® | SMILES AGAINST HATE |
| | 76381616 | | | KLEEN SLEEVE |
| | 76381640 | | | DE |
| | 76080527 | | | CUSHIREZ |
| | 76381636 | | | TRIAWAY |
| | 76080513 | | D | |
| | 76080513 | 2595480 | _ | SMILES AGAINST HATE |
| | 76348230 | 2333400 | • | HISHINE |
| | 76348229 | | | OPALSCRUB FT |
| | 76081918 | | | PEARL NEUTRAL |
| | | 2506201 | @ | FLUORUTITE |
| | 76080738 | 2586301 | | |
| | 76081828 | | D | TEKNAFLO |
| | 76081832 | | | PEARL SMOKE |
| | 76348228 | | _ | DAYTRAY |
| | 76259872 | | D | MICRO LIGHT LED |
| | 76387854 | | | VIT-L-ESCENCE |
| | 76380346 | | | ORTHOSHIELD |
| | 76080134 | | | NANOTIP |
| | 76084450 | | | ENDOSEAL |
| | | | | VITALESCENCE |
| 28 | 75669844 | 2601571 | $^{\mathbb{R}}$ | ULTRATEMP |
| - | 75859815 | | | OPAQUE SNOW |
| | 75861948 | | | TRANS ORANGE |
| 31 | 75859816 | | | TRANS BLUE |
| 32 | 75123070 | 2057461 | $^{ m 	extbf{R}}$ | ULTRACID |
| 33 | 75122658 | 2057459 | $^{	ext{	ext{	ext{	ext{	ext{	ext{	ext{	ext$ | CHLORCID |
| 34 | 75782696 | 2574209 | $^{\mathbb{R}}$ | PROPEZ |
| 35 | 75577040 | 2528832 | ® | |
| 36 | 75976934 | 2151499 | ® | THE SYRINGE PEOPLE |
| 37 | 75874379 | 2505423 | ® | ENDOREZ |
| 38 | 75859401 | | D | ENAMEL WHITE |
| 39 | 75859113 | | D | ENAMEL AMBER |
| | 75859111 | | D | ENAMEL NEUTRAL |
| | 75767451 | 2460976 | | OPALUSTRE |
| | 75671316 | 2335565 | | TRANS SMOKE |
| | 75670267 | 2370569 | | PEARL SNOW |
| | 75670266 | 2332299 | ® | |
| | 75670020 | 2340826 | | TRANS ICE |
| 46 | 75669849 | _0.0020 | _ | VITALESCENCE |
| 47 | 75669848 | | | PEARL FROST |
| 48 | 75669845 | 2345183 | B | TRANS AMBER |
| | 75669843 | 2353530 | | TRANS YELLOW |
| 50 | 75669827 | 2353530 | ® | |
| 50 | 13003021 | 2333329 | 6 | IIVUNO QIVUI |

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51, 75564695
              2290253
                       ® PERMAFLO
 52 75520545
              2279262
                       ® ULTRAEZ
 53 75443192
                         TRANS MIST
                      D
 54 75443181
                      D
                         OPALUSTRE
 55 75443111
                      D TRANS ICE
                      D TRANS SMOKE
 56 75443097
 57 75443096
                      D TRANS FAMILY
                      D ULTIMATE ARTISTIC
 58 75443053
 59 75443052
                      D PEARL FROST
 60 75443051
                      D TRANS AMBER
                      D TRANS GRAY
 61 75443050
 62 75442432
                      D PEARL SNOW
63 75442431
                      D PEARL FAMILY
 64 75442430
                      D TRANS YELLOW
 65 75442063
              2313079 ® AQUA
              2228430 ® OPALDAM
 66 75431581
 67 75430925
              2228422 ® OPALESCENCE XTRA
 68 75399364
              2300615 ® PO1
 69 75399363
                       ® PREPQUICK
              2300614
70 75399240
             2293422
                       ® ISOBLOCK
71 75369506
             2202904
                       ® ORASEAL
72 75363726
                      D
                         ULTRALEVE
73 75356357
                      D
                         ASEPTAGEL
74 75256940
                      D
                         IONOMAX
75 75248218
             2132680 ® PERMALUTE
76 75177462
              2226555 ® DERMADAM
77 75147564
              2075755
                       ® ULTRACAL
78 75135862
              2069786
                       ® SPATEENIE
79 75107631
              2131202
                       ® SPATEMP
80 75100289
                      D
                         PERMAPOST
81 74237678
              1714978
                      ® FILE-EZE
82 74030583
              1711442
                       ®
83 74104311
              1717059 ® ULTRA-FORM
84 74083467
              1659398
                       ® FLOR-OPAL
85 74636962
             2027689 ® VISCOSTAT
86 74408698
              1883444 D® BUBBLE
87 74104368
              1687733 ® STRAIGHT MAC
88 74083468
              1664031 ® SOF-TRAY
             2001928 ® HISITE
89 74636215
90 74571881
             1986566 ® BLUE MAX
91 74083543
              1662181
                       ® OPALESCENCE
 92 74418274
              1862216 D® PERMAGEN
93 74083380
              1657979
94 74636981
              2007117
                       ® ETCHARREST
                         OPALESCENCE DENTIST DESIGNED WHITENING TOOTHPASTE
95 74716554
                      D
96 74653801
              1956381
                       ® ULTRADENT
97 74653800
              1957870
                       ® UPI
98 74637920
                      D THE SYRINGE PEOPLE
             1987699 ® SEEK
99 74636982
100 74636980
              1987698 ® PERMASEAL
101 74636979
              2074266
                       ® SPATWIST
102 74636966
              1987697
                       ® INDISPENSE
103 74636965
              2177059
                       ® PERMAQUICK
104 74636963
                      D
                         SPATEENIE TWIST
105 74636960
                      D
                         UNCOVER
                      ® TWOSPENSE
106 74636822
              2076113
107 74636216
              2030887
                       ® JIFFY
108 74619365
                      D STACK PAK
              1923512 ® BLUE MINI
109 74571882
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110,74561639
111 74561628
              1914450
                        ® OPALESCENCE
              2030689
                        ®
                          FOR THAT WHITER SMILE
112 74559659
                       D
                          STACK-PAK
113 74556184
                          STACK-PAK
                       D
114 74556183
                       D
                          PERMALUTE
115 74440974
              1841764 D® PC
116 74440808
              1844066 D® P
117 74440805
              1852179 D® A
118 74440804
              1852178 D® A
119 74440803
              1844065 D® P
120 74440100
              1841762 D® PC
                        ® ADHESIVE DENTISTRY FOR THE TWENTY-FIRSTCENTURY
121 74418268
              1844063
122 74417421
              1831047
                        ® CHROMACLONE
                        ® MICRO ACCESS FOR THE TWENTY-FIRST CENTURY
              1830249
123 74413499
124 74413174
              1833627
                        ® AMELOGEN
125 74412332
              1865687
                        ® ENDO-EZE
126 74409276
                       D
                          LUER BULB
127 74405450
              1837799
                        ® QUADRASPENSE
128 74405208
              1826080
                        ® ULTRASEAL XT
129 74404593
              1824882
                        ® CONSEPSIS
130 74404289
              1826078
                        ® WALTERBERRY
131 74403440
              1827183
                        ® DEOX
132 74331749
              1842258
                        ® AMELOGEN
133 74330766
              1780014
                        ® PRIMADRY
134 74296283
              1829755 D® "PUTTING YOUR PRACTICE FIRST"
135 74292643
              1805207
                        ® INSPIRAL
136 74284443
                       D
                          HANDI-FLOSS
137 74279857
              1816537
                        ® UPI
138 74259612
              1761209
                        ® ULTRAPAK
139 74251861
              1791091
                        ®
140 74232799
              1768335
                        ® ULTRADENT
141 74196503
                       D
                          ULTRASEP
              1660502 D® LUMA-REZ
142 74106522
143 74104376
                       D
                          SERI-SHARP
144 74104345
                       D
                          ULTRA-TRIM
              1625841
                        ® BLACK MAC
145 74017618
146 74017532
              1626908
                        ® WHITE MAC
147 73830986
              1596227 D® ULTRA-SEAL
148 73830844
              1652978 D® ORASEAL
              1599174
149 73830843
                        ® ULTRA-BLEND
150 73830818
              1596226 D® ULTRA-SURE
151 73755685
              1560695
                        ® UPI
              1570762 D® GLOVER
152 73755259
153 73748560
              1574617 D® PRE-COMP
                          BLACK MINI
154 73734342
                       D
155 73734337
              1520743
                       ® WHITE MINI
              1520742
                        ® BLACK-MINI
156 73734336
157 73734333
              1528072
                        ® ULTRATECT
              1529563
                        ® COVER GLOVES
158 73734240
159 73734233
              1520739
                        ® BLACK MICRO
160 73711819
              1506991
                        ® ULTRACARE
              1557790
                        ®
161 73686488
162 73686327
              1509999
                        ® UPI
                          "ULTRAKIND"
163 73670857
                       D
164 73647911
              1474047
                        ® EXTEND-A-LIFE
              1476723
                        ® ULTRA-LIFE
165 73647897
166 73628092
              1474042
                        ® BLUE MICRO
167 73569382
              1402813
                        ® ULTRA-ETCH
              1383252 D® BLUE MINI
168 73545386
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| | 169 | 73545376 | 1383251 | D® | BLUE MAX |
|---|-----|----------|---------|----|---------------|
| - | 170 | 73545324 | 1376854 | ® | ULTRADENT |
| | 171 | 73545323 | 1380265 | D® | ULTRAPAK |
| | 172 | 73480669 | 1330480 | ® | UPI |
| | 173 | 73364314 | 1267835 | ® | DENTO-INFUSOR |
| | 174 | 73181575 | 1130219 | ® | ASTRINGEDENT |

. .

| # | Hits | Live | Dead | Tagged | Printed | Pl. Search term |
|----|------|--------|-------|--------|---------|---------------------|
| | | Viewed | Marks | | | 1 |
| 07 | 73 | 3 | 19 | 1 | | "Discus dental"[on] |

| # Camial Dagger | . Chah | . Morale |
|-------------------------------|---------------|-----------------------------------|
| # Serial Regnur 1 76164808 | n Status t | S MARK ZOOM |
| 2 76430872 | | |
| 3 76244865 | t t | FLUORIDEX DAILY DEFENSE STERIX |
| 4 76385147 | L | SMART SMILE |
| 5 76415719 | | MATRIXX |
| 6 76249860 | | DISCHEM |
| 7 76336024 | | SMILE 101 |
| | | DISCUS SUPERTRAY |
| 8 76328210 9 76275038 | D | FLASH - LITE |
| 10 76277037 | D | AQUARIUS |
| 11 76258107 | | SURF-X |
| 12 76258107 | | SON-FX |
| 13 76160668 | | THE WEEKENDER |
| 14 76041244 | D | WHITE NOW |
| 15 76031849 | D | SMARTCORD |
| | 5327 ® | CABRIO |
| 17 75819433 2570 | | |
| 18 75411202 2563 | | LIQUIDAM |
| 19 75541916 2559 | | RELIEF |
| 20 75660753 | 0220 W | WE'LL TAKE YOU THERE |
| 21 75748316 2523 | _ | PERIO-VISION |
| 22 75980521 2523 | | FLUORIDEX |
| 23 75979720 2431 | | DISCUS DENTAL |
| 24 75978519 2284 | | DISCUS DENTAL |
| 25 75977534 2200 | | BREATHRX |
| 26 75898348 | ,005 G | DENTALWEB.COM |
| 27 75898221 | D | DENTALWEB. COM |
| 28 75824286 | D | WEB-O-GRAM |
| | | PERIORX |
| 30 75790820 2362 | | ENDO-VISION |
| 31 75790819 2499 | | PERFECTEMP |
| 32 75748083 2462 | | PERFECTRAY |
| 33 75729944 | D | PROPHY PAK |
| 34 75708915 2498 | | SINGULES |
| 35 75640627 | D | DENTALWEB |
| 36 75634821 | | MATRIXX |
| 37 75568117 | | PROACTIVE CARE |
| 38 75557807 | | ACCUSHADE |
| 39 75556401 | | PROACTIVE CARE |
| 40 75545595 2349 | 9112 ® | SPLASH! |
| 41 75527109 2488 | 3086 ® | P.A.C. |
| 42 75527108 2433 | 3920 ® | PACIFIC AESTHETIC CONTINUUM |
| 43 75527076 | | FLUORIDEX |
| 44 75526229 2441 | L340 ® | BUILDING BLOCKS |
| 45 75487044 | D | |
| 46 75481842 2254 | 1512 ® | WHITE SPEED |
| 47 75411540 | D | DAY WHITE |
| 48 75411204 | D | LICKSTICK |
| 49 75355930 | D | SWAMP WATER |
| | | CONTRAST A.M. |
| 51 75270479 2217 | 7799 ® | FAST DAM |

| | 75269861 | 2200534 | ® | HALF-TIME |
|------|----------|---------|-----------------|---------------|
| ~53° | 75268281 | | | HALIMINTS |
| | 75268179 | 2221996 | ® | HALISPHERES |
| 55 | 75268178 | 2209693 | $^{\mathbb{R}}$ | ZYTEX |
| 56 | 75266756 | | D | BLIZZARD |
| 57 | 75236195 | 2196766 | ® | PUTTY-PAK |
| 58 | 75236036 | | D | PUTTY-POT |
| 59 | 75216653 | 2127164 | $^{\circ}$ | DISCUS DENTAL |
| 60 | 75216215 | | D | BREATHRX |
| 61 | 75209345 | | D | DISCUS DENTAL |
| 62 | 75179669 | | D | FLUORIDENT |
| 63 | 75082593 | 2272558 | ® | INTERDENT |
| 64 | 74221054 | 1746277 | ® | NITE WHITE |
| 65 | 74058506 | 1692303 | ® | 9-2-5 |
| 66 | 74709739 | | D | DAY BRITE |
| 67 | 74709486 | 2201653 | ® | DAY WHITE |
| 68 | 74634732 | 2169825 | $^{\mathbb{R}}$ | SPECTRA FORM |
| 69 | 74500972 | | D | FLUORIDENT |
| 70 | 74494819 | 1960862 | ® | CONTRAST P.M. |
| 71 | 74494818 | 1934129 | ® | SPEED STONE |
| 72 | 74485371 | 1998958 | ® | |
| 73 | 74485051 | 2007353 | ® | |

.

Display of Hit List

| # | Hits | Live | Dead | Tagged | Printed | Pl. | Search term |
|----|------|-------------|------------|--------|---------|-----|--------------------|
| 01 | 2 | Viewed 1 | Marks 1 | | 2 | | "day white"[bi,ti] |
| | | | | | | | or daywhite[bi,ti] |

Serial Regnum Status Mark
1 75411540 D DAY WHITE
2 74709486 2201653 t® DAY WHITE

*** User: levans *** Serial Number: 75411540 *** 10/2/02 2:39:20 PM ***

[Typed Drawing]

Mark

DAY WHITE

Goods and Services

(ABANDONED) IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whitener. FIRST USE: 19971103. FIRST USE IN COMMERCE: 19971103

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

75411540

Filing Date

December 29, 1997

Owner Name and Address

(APPLICANT) Discus Dental Impressions, Inc. CORPORATION CALIFORNIA 2236 South Barrington Avenue Los Angeles CALIFORNIA 90064

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "WHITE" APART FROM THE MARK AS SHOWN

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

DEAD

Abandonment Date

August 5, 1999

Attorney of Record LEONARD J LEV

FILING DATE: 12/29/1997

REG. NUMBER: 0000000

REG. DATE: 00/00/0000

EXAMINER: 73706/KON, ELISSA GARBER EXMR LO: 116

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 10/01/1999

STATUS: 602-ABANDONED - FAILURE TO RESPOND

STATUS DATE: 09/23/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|-------------------------------------|------------|-------------|
| 09/23/1999 | ABN2 | 0 | ABANDONMENT - FAILURE TO RESPOND | 5 | 000000 |
| 02/04/1999 | CNRT | F | NON-FINAL ACTION MAILED | 4 | 000000 |
| 01/19/1999 | DOCK | D | ASSIGNED TO EXAMINER | 3 | 073706 |
| 07/28/1998 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 07/20/1998 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 073706 |

[Typed Drawing]

Mark

DAY WHITE

Goods and Services

IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whiteners. FIRST USE: 19971103. FIRST USE IN COMMERCE: 19971103

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

74709486

Filing Date

August 1, 1995

Filed ITU

FILED AS ITU

Publication for Opposition Date

May 7, 1996

Change in Registration

CHANGE IN REGISTRATION HAS OCCURRED

Registration Number

2201653

Registration Date

November 3, 1998

Owner Name and Address

(REGISTRANT) DISCUS DENTAL IMPRESSIONS, INC. CORPORATION CALIFORNIA 2236 SOUTH BARRINGTON AVENUE WEST LOS ANGELES CALIFORNIA 90064

Assignment Recorded

ASSIGNMENT RECORDED

Prior Registration(s)

1746277

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "WHITE" APART FROM THE MARK AS SHOWN

MARK AS SHOWI

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

LIVE

Attorney of Record LEONARD J LEV

FILING DATE: 08/01/1995

REG. NUMBER: 2201653

REG. DATE: 11/03/1998

EXAMINER: 69775/HORRALL, PATRICIA **EXMR LO:** 106

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 04/07/2000 STATUS: 700-REGISTERED STATUS DATE: 11/03/1998

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 07/30/1999 | COC. | . 0 | CERTIFICATE OF CORRECTION ISSUED | 24 | 000000 |
| 03/01/1999 | RRPR | I | RESPONSE RECEIVED TO POST REG. ACTION | 23 | 000000 |
| 02/19/1999 | PRAM | 0 | POST REGISTRATION ACTION MAILED - SEC. 7 | 22 | 000000 |
| 11/18/1998 | AMD7 | Ī | SEC 7 REQUEST FILED | 21 | 000000 |
| 11/03/1998 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 20 | 000000 |
| 09/02/1998 | CNPR | P | ALLOWED PRINCIPAL REGISTER - SOU ACCEPTED | 19 | 000000 |
| 08/20/1998 | DOCK | D | ASSIGNED TO EXAMINER | 18 | 069775 |
| 08/14/1998 | SUPC | I | STATEMENT OF USE PROCESSING COMPLETE | 17 | 000000 |
| 08/14/1998 | EX4G | S | EXTENSION 4 GRANTED | 16 | 000000 |
| 07/29/1998 | IUAF . | S | USE AMENDMENT FILED | 15 | 000000 |
| 07/29/1998 | EXT4 | S | EXTENSION 4 FILED | 14 | 000000 |
| 03/02/1998 | EX3G | S | EXTENSION 3 GRANTED | 13 | 000000 |
| 01/13/1998 | EXT3 | S | EXTENSION 3 FILED | 12 | 000000 |
| 08/14/1997 | EX2G | S | EXTENSION 2 GRANTED | 11 | 000000 |
| 07/23/1997 | EXT2 | S | EXTENSION 2 FILED | 10 | 000000 |
| 01/22/1997 | EX1G | S | EXTENSION 1 GRANTED | 9 | 000000 |
| 11/20/1996 | EXT1 | S | EXTENSION 1 FILED | 8 | 000000 |
| 07/30/1996 | NOAM | 0 | NOTICE OF ALLOWANCE-MAILED | 7 | 000000 |
| 05/07/1996 | PUBO | A | PUBLISHED FOR OPPOSITION | 6 | 000000 |
| 04/05/1996 | NPUB | 0 | NOTICE OF PUBLICATION | 5 | 000000 |
| 02/23/1996 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 01/30/1996 | CNSA | P | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 01/25/1996 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| | - | | | | |

01/23/1996 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 069775 |

ASSIGNMENT FOR TRADEMARK SERIAL NUMBER: 74/709486

SERIAL NUMBER: 74/709486 DATE FILED : 08/01/1995

REGISTRATION NUMBER: 2201653 DATE REGISTERED: 11/03/1998

NUMBER OF PAGES: 002

MARK: DAY WHITE

REEL: 1765 FRAME: 0973 DATE RECORDED: 07/29/1998

REGISTRANT: DISCUS DENTAL IMPRESSIONS, INC.

ASSIGNOR: DISCUS DENTAL, INC. DATE SIGNED :11/03/1997

ADDRESS: DATE ACKNOWLD:

ENTITY : CORPORATION · CITIZENSHIP:

ASSIGNEE: DISCUS DENTAL IMPRESSIONS, INC.

ADDRESS: 2236 SOUTH BARRINGTON AVENUE

WEST LOS ANGELES, CA 90064
ENTITY: CORPORATION CITIZENSHIP: CALIFORNIA

BRIEF: ASSIGNS THE ENTIRE INTEREST AND THE GOODWILL

PRESS XMIT LINE TO CONTINUE.

FOR A NEW SEARCH ENTER TRANSACTION CODE AND SEARCH 10/02/02 16:39

STRATEGY HERE:

ASSIGNMENT FOR TRADEMARK SERIAL NUMBER: 74/709486 PAGE: 2

SERIAL NUMBER: 00/000000 DATE FILED : 08/01/1995

REGISTRATION NUMBER: 00000000 DATE REGISTERED: 11/03/1998

NUMBER OF PAGES: 002

MARK: DAY WHITE

REEL: FRAME: DATE RECORDED : 07/29/1998

NO DEED RECORD AVAILABLE

ASSIGNMENTS RECORDED PRIOR TO 1/1/55 ARE NOT CONTAINED IN THIS DATA BASE.

LAST PAGE. ENTER 'P' HERE TO PAGE BACKWARDS: FOR A NEW SEARCH ENTER TRANSACTION CODE AND SEARCH STRATEGY HERE:

10/02/02 16:39

FAGE: 1

Display of Hit List

| # | • | Hits | Live Viewed | Dead Marks | Tagged | Printed | Pl. | Search term |
|----|---|------|----------------|---------------|--------|---------|-----|--|
| 02 | | 1 | 1 | 0 | | 1 | | <pre>"night white"[bi,ti] or nightwhite[bi,ti]</pre> |

Serial Regnum Status Mark 1 74221054 1746277 t® NITE WHITE *** User: levans *** Serial Number: 74221054 *** 10/2/02 2:42:34 PM ***

[Typed Drawing]

Mark

NITE WHITE

Pseudo Mark

NIGHT WHITE

Goods and Services

IC 003. US 052. G & S: cosmetic tooth whitener. FIRST USE: 19920703.

FIRST USE IN COMMERCE: 19920703

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

74221054

Filing Date

November 12, 1991

Filed ITU

FILED AS ITU

Publication for Opposition Date

May 26, 1992

Registration Number

1746277

Registration Date

January 12, 1993

Owner Name and Address

(REGISTRANT) DISCUS ENTERPRISES, INC. CORPORATION CALIFORNIA 406-28th Street Manhattan Beach CALIFORNIA 90266

(LAST LISTED OWNER) DISCUS DENTAL, INC. CORPORATION BY CHANGE OF NAME CALIFORNIA 8550 HIGUERA STREET CULVER CITY CALIFORNIA 90232

Assignment Recorded

ASSIGNMENT RECORDED

Type of Mark

TRADEMARK

Register

PRINCIPAL

Affidavit Text

SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20020820.

Renewal

1ST RENEWAL 20020820

Live Dead Indicator

*** Search: 2 *** Document Number: 1 *** (cont)

*** User: levans *** Serial Number: 74221054 ***

LIVE

Attorney of Record GARY B. SCHMIDT

FILING DATE: 11/12/1991

REG. NUMBER: 1746277

REG. DATE: 01/12/1993

EXAMINER: 66405/KULICK, LIZ **EXMR LO:** 106 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 09/11/2002

STATUS: 800-REGISTERED AND RENEWED

STATUS DATE: 08/20/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 08/20/2002 | RNL1 | Q | REGISTERED AND RENEWED (FIRST RENEWAL - 10 YRS) | 17 | 000000 |
| 08/20/2002 | 89AG | О | REGISTERED - SEC. 8 (10-YR) ACCEPTED/SEC. 9 GRANTED | 16 | 000000 |
| 04/12/2002 | 89AF | I | REGISTERED - COMBINED SECTION 8 (10-YR) & SEC. 9 FILED | 15 | 000000 |
| 08/31/1998 | C15A | О | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 14 | 000000 |
| 08/05/1998 | RRPR | I | RESPONSE RECEIVED TO POST REG. ACTION | 13 | 000000 |
| 05/22/1998 | PR23 | О | POST REGISTRATION ACTION MAILED - SEC. 8 & 15 | 12 | 000000 |
| 03/17/1998 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 11 | 000000 |
| 01/12/1993 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 10 | 000000 |
| 11/23/1992 | CNPR | Р | ALLOWED PRINCIPAL REGISTER - SOU ACCEPTED | 9 | 000000 |
| 10/19/1992 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 8 | 000000 |
| 11/04/1992 | SUPC | I | STATEMENT OF USE PROCESSING COMPLETE | 7 | 000000 |
| 10/19/1992 | IUAF | S | USE AMENDMENT FILED | 6 | 000000 |
| 08/18/1992 | NOAM | 0 | NOTICE OF ALLOWANCE-MAILED | 5 | 000000 |
| 05/26/1992 | PUBO | A | PUBLISHED FOR OPPOSITION | 4 | 000000 |
| 04/24/1992 | NPUB | 0 | NOTICE OF PUBLICATION | 3 | 000000 |
| 01/30/1992 | CNSA | Р | APPROVED FOR PUB - PRINCIPAL REGISTER | 2 | 000000 |
| 01/29/1992 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 066405 |

Display of Hit List

| # | Hits | Live | Dead | Tagged | Printed | Pl. Search term |
|----|------|--------|-------|--------|---------|--------------------|
| | | Viewed | Marks | | | |
| 03 | . 6 | 1 | 2 | | | opalescence[bi,ti] |

| # | Serial R | egnum Sta | tus | s Mark | | | | |
|---|----------|-----------|-----------------|-------------|---------|----------|-----------|------------|
| 1 | 75430925 | 2228422 | t® | OPALESCENCE | XTRA | | | |
| 2 | 74083543 | 1662181 | ® | OPALESCENCE | | | | |
| 3 | 74716554 | | D | OPALESCENCE | DENTIST | DESIGNED | WHITENING | TOOTHPASTE |
| 4 | 74561639 | 1914450 | $^{\mathbb{R}}$ | OPALESCENCE | | | | |
| 5 | 74425981 | 1856819 | D® | OPALESCENCE | | | | |
| c | 74411020 | 1010662 | ക | ODATESCENCE | | | | |

Display of Tag List

| # | Hits | Live | Dead | Tagged | Printed | Pl. | Search term |
|----|------|--------|-------|--------|---------|-----|--------------------|
| | | Viewed | Marks | | | | |
| 03 | 6 | 4 | 2 | 4 | 4 | | opalescence[bi,ti] |

| # | Serial | Reanum | Status | Mark |
|----|--------|----------|--------|-------|
| 17 | Serrar | reditant | Status | LIGTV |

1 75430925 2228422 t® OPALESCENCE XTRA

2 74083543 1662181 V® OPALESCENCE

3 74716554 D OPALESCENCE DENTIST DESIGNED WHITENING TOOTHPASTE

4 74561639 1914450 t® OPALESCENCE

*** User: levans *** Serial Number: 75430925 *** 10/2/02 2:44:29 PM ***

[Typed Drawing]

Mark

OPALESCENCE XTRA

Pseudo Mark
OPALESCENCE EXTRA

Goods and Services

IC 005. US 006 018 044 046 051 052. G & S: tooth whiteners, namely, neutral sodium fluoride sustained release gel for use by dentists. FIRST USE: 19970523. FIRST USE IN COMMERCE: 19970523

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 75430925

Filing Date February 9, 1998

Publication for Opposition Date December 8, 1998

Registration Number 2228422

Registration Date March 2, 1999

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84095

Prior Registration(s) 1662181;1914450

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator LIVE

Attorney of Record RICK D NYDEGGER

FILING DATE: 02/09/1998

REG. NUMBER: 2228422

REG. DATE: 03/02/1999

EXAMINER: 72519/WARD, JOYCE A. **EXMR LO:** 105 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 03/05/1999 STATUS: 700-REGISTERED STATUS DATE: 03/02/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 03/02/1999 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 12/08/1998 | PUBO | A | PUBLISHED FOR OPPOSITION | . 5 | 000000 |
| 11/06/1998 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 09/28/1998 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 09/24/1998 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 09/22/1998 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 072519 |

*** User: levans *** Serial Number: 74083543 *** 10/2/02 2:44:29 PM ***

OPALESCENCE

Mark

OPALESCENCE

Goods and Services

IC 005. US 018. G & S: tooth whiteners; namely, neutral sodium fluorida sustained release gel for use by dentists. FIRST USE: 19900514. FIRST USE IN COMMERCE: 19900514

Mark Drawing Code

(5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM

Serial Number 74083543

Filing Date

July 31, 1990

Publication for Opposition Date August 6, 1991

Registration Number 1662181

Registration Date

October 29, 1991

Owner Name and Address

(REGISTRANT) Ultradent Products Incorporated CORPORATION UTAH 505 WEST 10200 SOUTH SOUTH JORDAN UTAH 84095

Type of Mark

TRADEMARK

Register

PRINCIPAL

Affidavit Text

SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20020110.

Renewal

1ST RENEWAL 20020110

Live Dead Indicator .

LIVE

Attorney of Record

Rick D. Nydegger

FILING DATE: 07/31/1990

REG. NUMBER: 1662181

REG. DATE: 10/29/1991

EXAMINER: 67971/MICHELI, ANGELA M. EXMR LO: 108

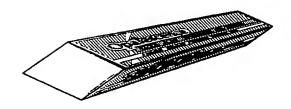
LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 01/15/2002

STATUS: 800-REGISTERED AND RENEWED

STATUS DATE: 01/10/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 01/10/2002 | RNL1 | Q | REGISTERED AND RENEWED (FIRST RENEWAL - 10 YRS) | 11 | 000000 |
| 01/10/2002 | 89AG | 0 | REGISTERED - SEC. 8 (10-YR) ACCEPTED/SEC. 9 GRANTED | 10 | 000000 |
| 10/26/2001 | 89AF | I | REGISTERED - COMBINED SECTION 8 (10-YR) & SEC. 9 FILED | 9 | 000000 |
| 12/06/1996 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 8 | 000000 |
| 10/31/1996 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 7 | 000000 |
| 10/29/1991 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 08/06/1991 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 07/05/1991 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 02/14/1991 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 01/18/1991 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 12/01/1990 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 067971 |



Mark

OPALESCENCE DENTIST DESIGNED WHITENING TOOTHPASTE

Goods and Services

(ABANDONED) IC 003. US 001 004 006 050 051 052. G & S: toothpaste. FIRST USE: 19940601. FIRST USE IN COMMERCE: 19940601

Mark Drawing Code

(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS

Design Code

260701 261113

Serial Number

74716554

Filing Date

August 16, 1995

Owner Name and Address

(APPLICANT) ULTRADENT PRODUCTS, INC. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84065

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

DEAD

Abandonment Date

August 10, 1996

Attorney of Record

Rick D. Nydegger

FILING DATE: 08/16/1995

REG. NUMBER: 0000000

REG. DATE: 00/00/0000

EXAMINER: 63031/FINE, STEVEN R. **EXMR LO:** 107 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 10/01/1996

STATUS: 602-ABANDONED - FAILURE TO RESPOND

STATUS DATE: 09/24/1996

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|-------------------------------------|------------|-------------|
| 09/24/1996 | ABN2 | 0 | ABANDONMENT - FAILURE TO RESPOND | 3 | 000000 |
| 02/09/1996 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 01/26/1996 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 063031 |

*** User: levans *** Serial Number: 74561639 *** 10/2/02 2:44:29 PM ***

[Typed Drawing]

Mark

OPALESCENCE

Goods and Services

IC 003. US 052. G & S: toothpaste. FIRST USE: 19940500. FIRST USE IN

COMMERCE: 19940500

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

74561639

Filing Date

August 16, 1994

Publication for Opposition Date

June 6, 1995

Registration Number

1914450

Registration Date

August 29, 1995

Owner Name and Address

(REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200

South South Jordan UTAH 84065

Prior Registration(s)

1662181

Type of Mark

TRADEMARK

Register

PRINCIPAL

Affidavit Text

SECT 15. SECT 8 (6-YR).

Live Dead Indicator

LIVE

Attorney of Record

RICK D. NYDEGGER

FILING DATE: 08/16/1994

REG. NUMBER: 1914450

REG. DATE: 08/29/1995

EXAMINER: 71999/SANOK, DAWNMARI EXMR LO: 107

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 06/18/2001

STATUS: 702-SECTION 8 & 15-ACCEPTED AND ACKNOWLEDGED

STATUS DATE: 06/14/2001

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 06/14/2001 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 8 | 000000 |
| 03/26/2001 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 7 | 000000 |
| 08/29/1995 | R.PR | Α | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 06/06/1995 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 05/05/1995 | NPUB | O | NOTICE OF PUBLICATION | 4 | 000000 |
| 02/16/1995 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 02/08/1995 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 02/01/1995 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 071999 |

Display of Hit List

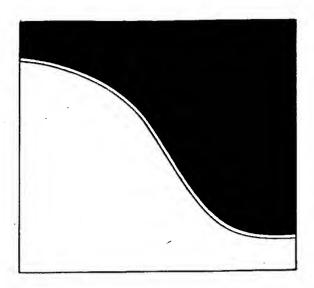
| # | | / Live /Viewed | | Tagged | Printed | Pl. | Search | term |
|----|----|-------------------|---|--------|---------|-----|---------|------|
| 17 | 14 | · 9 | 5 | 2 | | | 7 and 1 | 16 |

| # | Serial | Regnum St | atus | s Mark |
|----|----------|-----------|------|---------------|
| 1. | 76164808 | } | t | ZOOM |
| 2 | 76160668 | } | t | THE WEEKENDER |
| 3 | 76041244 | <u> </u> | ·D | WHITE NOW |
| 4 | 75978519 | 2284148 | V® | DISCUS DENTAL |
| 5 | 75487044 | 1 | D | |
| 6 | 75481842 | 2254512 | t® | WHITE SPEED |
| 7 | 75411540 |) | D | DAY WHITE |
| 8 | 75352941 | . 2238294 | t® | CONTRAST A.M. |
| 9 | 75266756 | · | D | BLIZZARD |
| 10 | 74221054 | 1746277 | t® | NITE WHITE |
| 11 | 74709739 |) | D | DAY BRITE |
| 12 | 74709486 | 2201653 | t® | DAY WHITE |
| 13 | 74494819 | 1960862 | t® | CONTRAST P.M. |
| 14 | 74485051 | 2007353 | V® | |

Display of Tag List

| # | Hits | Live | Dead | Tagged | Printed | Pl. Search | term |
|----|------|--------|-------|--------|---------|------------|------|
| | | Viewed | Marks | | | | |
| 17 | 14 | 9 | 5 | 2 | | 7 and 1 | 6 |

[#] Serial Regnum Status Mark 4 75978519 2284148 V® DISCUS DENTAL 14 74485051 2007353 V®



Goods and Services

IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whitener preparation. FIRST USE: 19920815. FIRST USE IN COMMERCE: 19920815

Mark Drawing Code
(2) DESIGN ONLY

Design Code 261110 261121

Serial Number 74485051

Filing Date February 1, 1994

Publication for Opposition Date November 28, 1995

Registration Number 2007353

Registration Date
October 15, 1996

Owner Name and Address (REGISTRANT) Discus Dental, Inc. CORPORATION CALIFORNIA 8550 HIGUERA STREET CULVER CITY CALIFORNIA 90232

Type of Mark
TRADEMARK

Register PRINCIPAL

Affidavit Text SECT 15. SECT 8 (6-YR).

*** Search: 16 *** Document Number: 16 ***

(cont)

Live Dead Indicator LIVE

FILING DATE: 02/01/1994

REG. NUMBER: 2007353

REG. DATE: 10/15/1996

EXAMINER: 67443/MICHOS, JOHN E. **EXMR LO:** 105 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 11/09/2001

STATUS: 702-SECTION 8 & 15-ACCEPTED AND ACKNOWLEDGED

STATUS DATE: 11/03/2001

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 11/03/2001 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 12 | 000000 |
| 10/17/2001 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 11 | 000000 |
| 10/15/1996 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 10 | 000000 |
| 11/28/1995 | PUBO | A | PUBLISHED FOR OPPOSITION | 9 | 000000 |
| 10/27/1995 | NPUB | O | NOTICE OF PUBLICATION | 8 | 000000 |
| 09/11/1995 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 7 | 000000 |
| 07/19/1995 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 6 | 000000 |
| 01/26/1995 | CNRT | F | NON-FINAL ACTION MAILED | 5 | 000000 |
| 12/08/1994 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 4 | 000000 |
| 07/18/1994 | CNRT | F | NON-FINAL ACTION MAILED | 3 | 000000 |
| 07/13/1994 | DOCK | D | ASSIGNED TO EXAMINER | 2 | 067443 |
| 07/07/1994 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 071998 |



Mark

DISCUS DENTAL

Goods and Services

IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whitener. FIRST USE: 19971201. FIRST USE IN COMMERCE: 19971201

Mark Drawing Code

(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS

Design Code

261110 261121

Serial Number

75978519

Filing Date

December 6, 1996

Filed ITU

FILED AS ITU

Publication for Opposition Date
July 14, 1998

Registration Number

2284148

Registration Date

October 5, 1999

Owner Name and Address

(REGISTRANT) Discus Dental Impressions, Inc. CORPORATION CALIFORNIA 2236 S. Barrington Avenue West Los Angeles CALIFORNIA 90064

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "DENTAL" APART FROM THE MARK AS SHOWN

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

LIVE

Attorney of Record

LEONARD J LEV

*** Search: 17 *** Document Number: 4 ***

FILING DATE: 12/06/1996

REG. NUMBER: 2284148

REG. DATE: 10/05/1999

EXAMINER: 69775/HORRALL, PATRICIA **EXMR LO:** 106

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 10/08/1999 STATUS: 700-REGISTERED STATUS DATE: 10/05/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 10/05/1999 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 15 | 000000 |
| 08/04/1999 | CNPR | Р | ALLOWED PRINCIPAL REGISTER - SOU ACCEPTED | 14 | 000000 |
| 08/03/1999 | DOCK | D | ASSIGNED TO EXAMINER | 13 | 069775 |
| 07/30/1999 | SUPC | I | STATEMENT OF USE PROCESSING COMPLETE | 12 | 000000 |
| 04/05/1999 | IUAF | S | USE AMENDMENT FILED | 11 | 000000 |
| 07/31/1999 | DPCC | D | DIVISIONAL PROCESSING COMPLETE | 10 | 000000 |
| 10/06/1998 | NOAM | 0 | NOTICE OF ALLOWANCE-MAILED | 9 | 000000 |
| 07/14/1998 | PUBO | A | PUBLISHED FOR OPPOSITION | 8 | 000000 |
| 06/12/1998 | NPUB | O | NOTICE OF PUBLICATION | 7 | 000000 |
| 05/06/1998 | CNSA | P | APPROVED FOR PUB - PRINCIPAL REGISTER | 6 | 000000 |
| 03/13/1998 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 5 | 000000 |
| 01/15/1998 | CNFR | 0 | FINAL REFUSAL MAILED | 4 | 000000 |
| 12/22/1997 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 3 | 000000 |
| 07/18/1997 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 07/11/1997 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 069775 |

*** User: levans *** Serial Number: 74709739 *** 10/2/02 10:05:21 AM ***

[Typed Drawing]

Mark

DAY BRITE

Pseudo Mark

DAY BRIGHT

Goods and Services

(ABANDONED) IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whiteners

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

74709739

Filing Date

August 1, 1995

Filed ITU

FILED AS ITU

Publication for Opposition Date

May 7, 1996

Owner Name and Address

(APPLICANT) Discus Dental, Inc. CORPORATION CALIFORNIA 433 North Camden Drive Beverly Hills CALIFORNIA 90210

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "BRITE" APART FROM THE MARK AS SHOWN

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

DEAD

Abandonment Date

January 31, 1999

Attorney of Record

LEONARD J LEV

*** User: levans *** Serial Number: 75481842 *** 10/2/02 10:02:45 AM ***

[Typed Drawing]

Mark

WHITE SPEED

Goods and Services

IC 003. US 001 004 006 050 051 052. G & S: cosmetic tooth whitener. FIRST USE: 19980616. FIRST USE IN COMMERCE: 19980616

Mark Drawing Code

(1) TYPED DRAWING

Serial Number

75481842

Filing Date

May 8, 1998

Filed ITU

FILED AS ITU

Publication for Opposition Date September 29, 1998

September 29, 19

Registration Number 2254512

Registration Date

June 15, 1999

Owner Name and Address

(REGISTRANT) Discus Dental Impressions, Inc. CORPORATION CALIFORNIA 2236 South Barrington Avenue West Los Angeles CALIFORNIA 90064

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "WHITE" APART FROM THE MARK AS SHOWN

Type of Mark

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator

LIVE

Attorney of Record

LEONARD J LEV

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Display of Hit List
```

Dead Live Viewed 50 Hits Tagged Printed Pl. Search term Marks 31 8 and 16 81 10 18

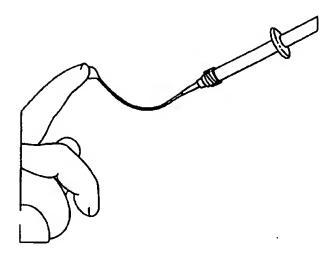
| - 11 | . | 0.1 | | Manala |
|------|-----------|-----------|----|--------------------|
| # | Serial Re | egnum Sta | | |
| | 76081840 | | t | OPAQUE WHITE |
| | 76080741 | | | |
| | | 2621996 | | TRANS FROST |
| _ | 76081863 | | t | PEARL AMBER |
| | 76381616 | | t | KLEEN SLEEVE |
| | 76381636 | | t | TRIAWAY |
| 7 | 76080513 | | D | |
| 8 | 76081918 | | | PEARL NEUTRAL |
| 9 | 76081828 | | D | TEKNAFLO |
| 10 | 76081832 | | t | PEARL SMOKE |
| 11 | 76348228 | | t | DAYTRAY |
| 12 | 76387854 | | V | VIT-L-ESCENCE |
| 13 | 76080134 | | t | NANOTIP |
| 14 | 75357948 | 2242070 | D® | VITALESCENCE |
| 15 | 75861948 | | t | TRANS ORANGE |
| 16 | 75859816 | | t | TRANS BLUE |
| 17 | 75577040 | 2528832 | V® | |
| 18 | 75976934 | 2151499 | t® | THE SYRINGE PEOPLE |
| 19 | 75859401 | | D | ENAMEL WHITE |
| 20 | 75859113 | | D | ENAMEL AMBER |
| 21 | 75859111 | | D | ENAMEL NEUTRAL |
| | 75767451 | 2460976 | t® | OPALUSTRE |
| | | | | TRANS SMOKE |
| | | | | PEARL SNOW |
| | | | | TRANS MIST |
| | | | | TRANS ICE |
| | 75669849 | | t | VITALESCENCE |
| | 75669848 | | t | PEARL FROST |
| | | 2345183 | | TRANS AMBER |
| | 75669843 | | | TRANS YELLOW |
| | 75669827 | | | TRANS GRAY |
| | 75443192 | | D | TRANS MIST |
| | 75443181 | | D | OPALUSTRE |
| | 75443111 | | D | TRANS ICE |
| | 75443097 | | D | TRANS SMOKE |
| | 75443096 | | D | TRANS FAMILY |
| | 75443053 | | D | ULTIMATE ARTISTIC |
| | 75443052 | | D | PEARL FROST |
| | 75443051 | | D | TRANS AMBER |
| | 75443050 | • | D | TRANS GRAY |
| 41 | 75442432 | | D | PEARL SNOW |
| 42 | 75442431 | | D | PEARL FAMILY |
| 43 | 75442430 | | D | TRANS YELLOW |
| 44 | 75430925 | 2228422 | t® | OPALESCENCE XTRA |
| 45 | 75135862 | 2069786 | V® | SPATEENIE |
| | 74030583 | 1711442 | V® | |
| | 74083467 | 1659398 | | FLOR-OPAL |
| 48 | 74408698 | 1883444 | D® | BUBBLE |
| | 74083468 | 1664031 | t® | SOF-TRAY |
| 50 | 74083543 | 1662181 | V® | OPALESCENCE |
| 51 | 74418274 | 1862216 | D® | PERMAGEN |

```
--52 44083380
               1657979 V®
 53 74636979
              2074266 V® SPATWIST
 54 74636966 1987697 V® INDISPENSE
 55 74636965
               2177059 V® PERMAQUICK
 56 74636963
                        D SPATEENIE TWIST
 57 74636822
               2076113 V® TWOSPENSE
 58 74619365
                        D STACK PAK
 59 74561628
               2030689 t® FOR THAT WHITER SMILE
 60 74559659
                        D STACK-PAK
 61 74440974 1841764 D® PC
 62 74440808 1844066 D® P
 63 74440805 1852179 D® A
 64 74440804 1852178 D® A
 65 74440803 1844065 D® P
 66 74440100 1841762 D® PC
67 74418268 1844063 t® ADHESIVE DENTISTRY FOR THE TWENTY-FIRSTCENTURY
 68 74413499 1830249 t® MICRO ACCESS FOR THE TWENTY-FIRST CENTURY 69 74413174 1833627 t® AMELOGEN
 73 74251861 1791091 V®
74 74232799 1768335 t® ULTRADENT
 75 74017618 1625841 t® BLACK MAC
 76 74017532 1626908 t® WHITE MAC
 77 73755685 1560695 V® UPI
78 73748560 1574617 D® PRE-COMP
 79 73569382 1402813 t® ULTRA-ETCH
 80 73480669 1330480 V® UPI
81 73364314 1267835 t® DENTO-INFUSOR
```

Display of Tag List

| # | Hits | Live | | Tagged | Printed | Pl. | Search | term |
|----|------|--------|-------|--------|---------|-----|---------|------|
| | | Viewed | Marks | | | | | |
| 18 | 81 | 50 | 31 | 10 | | | 8 and 3 | 16 |

| # | Serial R | egnum Sta | atus | Mark | |
|----|----------|-----------|------|-------------|------|
| 17 | 75577040 | 2528832 | V® | | |
| 32 | 75443192 | | D | TRANS MIST | |
| 44 | 75430925 | 2228422 | t® | OPALESCENCE | XTRA |
| 47 | 74083467 | 1659398 | t® | FLOR-OPAL | |
| 48 | 74408698 | 1883444 | D® | BUBBLE | |
| 50 | 74083543 | 1662181 | V® | OPALESCENCE | |
| 54 | 74636966 | 1987697 | V® | INDISPENSE | |
| 57 | 74636822 | 2076113 | V® | TWOSPENSE | |
| 73 | 74251861 | 1791091 | V® | | |
| 74 | 74232799 | 1768335 | t® | ULTRADENT | |



Goods and Services

IC 005. US 006 018 044 046 051 052. G & S: Teeth <u>bleaching</u> preparation sold in <u>syringes</u> which are contained as part of a kit for use in home dental <u>bleaching</u> procedures used under the direction and care of dentists. FIRST USE: 19900514. FIRST USE IN COMMERCE: 19900514

Mark Drawing Code
(2) DESIGN ONLY

Design Code 021107 100725

Serial Number 75577040

Filing Date
August 9, 1999

Publication for Opposition Date October 23, 2001

Registration Number 2528832

Registration Date
January 15, 2002

Owner Name and Address (REGISTRANT) ULTRADENT PRODUCTS, INC. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84065

Description of Mark

The mark consists of a depiction of the dental bleaching preparation which has been extruded onto the end of a finger of a hand and further depicting a long strand of the dental bleaching preparation thereafter extruded from the end of the syringe.

Type of Mark

*** Search: 18 *** Document Number: 17 *** (cont)

TRADEMARK

Register

PRINCIPAL

Live Dead Indicator LIVE

Attorney of Record JONATHAN W. RICHARDS

*** Search: 18 *** Document Number: 17 ***

FILING DATE: 08/09/1999

REG. NUMBER: 2528832

REG. DATE: 01/15/2002

EXAMINER: 76419/FRENCH, CURTIS **EXMR LO:** 115 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 01/25/2002 STATUS: 700-REGISTERED STATUS DATE: 01/15/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 01/15/2002 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 7 | 000000 |
| 10/23/2001 | PUBO | A | PUBLISHED FOR OPPOSITION | 6 | 000000 |
| 10/03/2001 | NPUB | 0 | NOTICE OF PUBLICATION | 5 | 000000 |
| 02/08/2001 | CNSA | О | APPROVED FOR PUB - PRINCIPAL REGISTER | 4 | 000000 |
| 05/24/2000 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 3 | 000000 |
| 11/24/1999 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 05/19/1999 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 076419 |

*** User: levans *** Serial Number: 75443192 *** 10/2/02 2:55:32 PM ***

[Typed Drawing]

Mark

TRANS MIST

Goods and Services

(ABANDONED) IC 005. US 006 018 044 046 051 052. G & S: Tooth whiteners, namely neutral sodium fluoride sustained release gel for use by dentists

(ABANDONED) IC 010. US 026 039 044. G & S: kits used for topical application of tooth-whiteening gels, including dental trays, syringes, and toothbrushes

Mark Drawing Code

(1) TYPED DRAWING

Serial Number 75443192

Filing Date

March 2, 1998

Filed ITU

FILED AS ITU

Owner Name and Address
(APPLICANT) ULTRADENT PRODUCTS, INC. CORPORATION UTAH 505 West 10200
South South Jordan UTAH 84095

Type of Mark
TRADEMARK

Register

PRINCIPAL

Live Dead Indicator DEAD

Abandonment Date
May 25, 1999

Attorney of Record . RICK D NYDEGGER

FILING DATE: 03/02/1998

REG. NUMBER: 0000000

REG. DATE: 00/00/0000

EXAMINER: 75516/DEFORD, JEFF **EXMR LO:** 115

LOCATION: M6D-TMO LAW OFFICE 115 - DOCKET CLERK

DATE IN LOC: 06/29/1999

STATUS: 602-ABANDONED - FAILURE TO RESPOND

STATUS DATE: 06/29/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|-------------------------------------|------------|-------------|
| 06/29/1999 | ABN2 | 0 | ABANDONMENT - FAILURE TO RESPOND | 3 | 000000 |
| 11/24/1998 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 10/19/1998 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 075516 |

[Typed Drawing]

Mark

OPALESCENCE XTRA

Pseudo Mark
OPALESCENCE EXTRA

Goods and Services

IC 005. US 006 018 044 046 051 052. G & S: tooth whiteners, namely, neutral sodium fluoride sustained release gel for use by dentists. FIRST USE: 19970523. FIRST USE IN COMMERCE: 19970523

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 75430925

Filing Date February 9, 1998

Publication for Opposition Date December 8, 1998

Registration Number 2228422

Registration Date March 2, 1999

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84095

Prior Registration(s) 1662181;1914450

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator LIVE

Attorney of Record RICK D NYDEGGER

FILING DATE: 02/09/1998

REG. NUMBER: 2228422

REG. DATE: 03/02/1999

EXAMINER: 72519/WARD, JOYCE A. **EXMR LO:** 105 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 03/05/1999 STATUS: 700-REGISTERED STATUS DATE: 03/02/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 03/02/1999 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 12/08/1998 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 11/06/1998 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 09/28/1998 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 09/24/1998 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 09/22/1998 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 072519 |

*** User: levans *** Serial Number: 74083467 *** 10/2/02 2:55:32 PM ***

[Typed Drawing]

Mark

FLOR-OPAL

Pseudo Mark FLOURIDE

Goods and Services

IC 005. US 018. G & S: tooth whiteners; namely, neutral sodium fluoride sustained-release gel for use by dentists. FIRST USE: 19900514. FIRST USE IN COMMERCE: 19900514

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 74083467

Filing Date, July 31, 1990

Publication for Opposition Date July 16, 1991

Registration Number 1659398

Registration Date
October 8, 1991

Owner Name and Address (REGISTRANT) Ultradent Products Incorporated CORPORATION UTAH 505 WEST 10200 SOUTH SOUTH JORDAN UTAH 84095

Type of Mark
TRADEMARK

Register

PRINCIPAL

Affidavit Text
SECT 15 SECT 8 (6-YR) SECTION 8(10)

SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20020509.

Renewal

1ST RENEWAL 20020509

Live Dead Indicator LIVE

Attorney of Record Rick D. Nydegger

*** Search: 18 *** Document Number: 47 ***

FILING DATE: 07/31/1990

REG. NUMBER: 1659398

REG. DATE: 10/08/1991

EXAMINER: 67971/MICHELI, ANGELA M. EXMR LO: 108

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 05/14/2002

STATUS: 800-REGISTERED AND RENEWED

STATUS DATE: 05/09/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 05/09/2002 | RNL1 | Q | REGISTERED AND RENEWED (FIRST RENEWAL - 10 YRS) | 12 | 000000 |
| 05/09/2002 | 89AG | О | REGISTERED - SEC. 8 (10-YR) ACCEPTED/SEC. 9 GRANTED | 11 | 000000 |
| 03/08/2002 | 89AF | I | REGISTERED - COMBINED SECTION 8 (10-YR) & SEC. 9 FILED | 10 | 000000 |
| 03/08/2002 | MAIL | I | PAPER RECEIVED | 9 | 000000 |
| 12/06/1996 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 8 | 000000 |
| 10/31/1996 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 7 | 000000 |
| 10/08/1991 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 07/16/1991 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 06/14/1991 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 02/27/1991 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 01/14/1991 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 12/01/1990 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 067971 |

*** User: levans *** Serial Number: 74408698 *** 10/2/02 2:55:33 PM ***

[Typed Drawing]

Mark

BUBBLE

Goods and Services (CANCELLED) IC 010. US 044. G & S: disposable dental **syringe** with a delivery tip used for mixing two or more fluids. FIRST USE: 19930200. FIRST USE IN COMMERCE: 19930200

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 74408698

Filing Date
June 30, 1993

Publication for Opposition Date December 20, 1994

Registration Number 1883444

Registration Date
March 14, 1995

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84065

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator DEAD

Cancellation Date
March 23, 2002

Attorney of Record Rick D. Nydegger

FILING DATE: 06/30/1993

REG. NUMBER: 1883444

REG. DATE: 03/14/1995

EXAMINER: 69976/SEEGARS, GERALD C. EXMR LO: 106

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 05/31/1995

STATUS: 710-CANCELLED - SECTION 8

STATUS DATE: 03/23/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 03/23/2002 | C8 | 0 | CANCELLED SEC. 8 (6-YR) | 7 | 000000 |
| 03/14/1995 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 12/20/1994 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 11/18/1994 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 06/24/1994 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 06/22/1994 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 10/26/1993 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 069976 |

*** User: levans *** Serial Number: 74083543 *** 10/2/02 3:07:37 PM ***

OPALESCENCE

Mark

OPALESCENCE

Goods and Services

IC 005. US 018. G & S: tooth whiteners; namely, neutral sodium fluorida sustained release gel for use by dentists. FIRST USE: 19900514. FIRST USE IN COMMERCE: 19900514

Mark Drawing Code

(5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM

Serial Number

74083543

Filing Date

July 31, 1990

Publication for Opposition Date August 6, 1991

Registration Number 1662181

Registration Date
October 29, 1991

Owner Name and Address

(REGISTRANT) Ultradent Products Incorporated CORPORATION UTAH 505 WEST 10200 SOUTH SOUTH JORDAN UTAH 84095

Type of Mark
TRADEMARK

Register

PRINCIPAL

Affidavit Text

SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20020110.

Renewal

1ST RENEWAL 20020110

Live Dead Indicator

LIVE

. Attorney of Record

Rick D. Nydegger

FILING DATE: 07/31/1990

REG. NUMBER: 1662181

REG. DATE: 10/29/1991

EXAMINER: 67971/MICHELI, ANGELA M. EXMR LO: 108

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 01/15/2002

STATUS: 800-REGISTERED AND RENEWED

STATUS DATE: 01/10/2002

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 01/10/2002 | RNL1 | Q | REGISTERED AND RENEWED (FIRST RENEWAL - 10 YRS) | 11 | 000000 |
| 01/10/2002 | 89AG | 0 | REGISTERED - SEC. 8 (10-YR) ACCEPTED/SEC. 9 GRANTED | 10 | 000000 |
| 10/26/2001 | 89AF | I | REGISTERED - COMBINED SECTION 8 (10-YR) & SEC. 9 FILED | 9 | 000000 |
| 12/06/1996 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 8 | 000000 |
| 10/31/1996 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 7 | 000000 |
| 10/29/1991 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 6 | 000000 |
| 08/06/1991 | PUBO | A | PUBLISHED FOR OPPOSITION | 5 | 000000 |
| 07/05/1991 | NPUB | 0 | NOTICE OF PUBLICATION | 4 | 000000 |
| 02/14/1991 | CNSA | О | APPROVED FOR PUB - PRINCIPAL REGISTER | 3 | 000000 |
| 01/18/1991 | CNEA | F | EXAMINERS AMENDMENT MAILED | 2 | 000000 |
| 12/01/1990 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 067971 |

IndiSpense

Mark

INDISPENSE

Goods and Services

IC 010. US 026 039 044. G & S: dental instruments, namely a **syringe** delivery system used for the simultaneous dispensing of several dental materials. FIRST USE: 19950503. FIRST USE IN COMMERCE: 19950613

Mark Drawing Code

(5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM

Serial Number 74636966

Filing Date

February 21, 1995

Filed ITU

FILED AS ITU

Publication for Opposition Date October 10, 1995

Registration Number 1987697

Registration Date
July 16, 1996

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South So. Jordan UTAH 84065

Type of Mark
TRADEMARK

Register

PRINCIPAL

Affidavit Text

SECT 15. SECT 8 (6-YR).

*** Search: 18 *** Document Number: 54 ***

(cont)

Live Dead Indicator LIVE

Attorney of Record

RICK D. NYDEGGER

*** Search: 18 *** Document Number: 54 ***

FILING DATE: 02/21/1995

REG. NUMBER: 1987697

REG. DATE: 07/16/1996

EXAMINER: 67659/WELLS, KELLEY **EXMR LO:** 105

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 10/04/2001

STATUS: 702-SECTION 8 & 15-ACCEPTED AND ACKNOWLEDGED

STATUS DATE: 10/03/2001

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|---|------------|-------------|
| 10/03/2001 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 11 | 000000 |
| 09/12/2001 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 10 | 000000 |
| 07/16/1996 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 9 | 000000 |
| 06/03/1996 | CNPR | P | ALLOWED PRINCIPAL REGISTER - SOU ACCEPTED | 8 | 000000 |
| 05/17/1996 | SUPC | I | STATEMENT OF USE PROCESSING COMPLETE | 7 | 000000 |
| 03/04/1996 | IUAF | S | USE AMENDMENT FILED | 6 | 000000 |
| 01/02/1996 | NOAM | O | NOTICE OF ALLOWANCE-MAILED | 5 | 000000 |
| 10/10/1995 | PUBO | A | PUBLISHED FOR OPPOSITION | 4 | 000000 |
| 09/08/1995 | NPUB | 0 | NOTICE OF PUBLICATION | 3 | 000000 |
| 07/07/1995 | CNSA | Р | APPROVED FOR PUB - PRINCIPAL REGISTER | 2 | 000000 |
| 07/07/1995 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 067659 |

TwoSpense

Mark

TWOSPENSE

Pseudo Mark
TWO SPENSE

Goods and Services
IC 010. US 026 039 044. G & S: dental instruments, namely a syringe delivery system used for the simultaneous dispensing two dental materials. FIRST USE: 19961111. FIRST USE IN COMMERCE: 19961118

Mark Drawing Code
(5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM

Serial Number 74636822

Filing Date February 21, 1995

Filed ITU FILED AS ITU

Publication for Opposition Date October 17, 1995

Registration Number 2076113

Registration Date
July 1, 1997

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South So. Jordan UTAH 84065

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator LIVE

Attorney of Record Rick D. Nydegger

FILING DATE: 02/21/1995

REG. NUMBER: 2076113

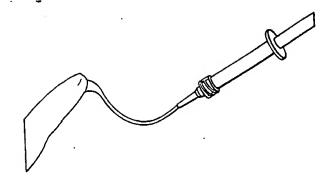
REG. DATE: 07/01/1997

EXAMINER: 71994/CHARLON, BARNEY **EXMR LO:** 105

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 07/02/1997 STATUS: 700-REGISTERED STATUS DATE: 07/01/1997

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 07/01/1997 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 12 | 000000 |
| 05/06/1997 | CNPR | P | ALLOWED PRINCIPAL REGISTER - SOU ACCEPTED | 11 | 000000 |
| 04/11/1997 | DOCK | D | ASSIGNED TO EXAMINER | 10 | 071994 |
| 04/07/1997 | SUPC | I | STATEMENT OF USE PROCESSING COMPLETE | 9 | 000000 |
| 03/07/1997 | IUAF | S | USE AMENDMENT FILED | 8 | 000000 |
| 11/07/1996 | EX1G | S | EXTENSION 1 GRANTED | 7 | 000000 |
| 09/09/1996 | EXT1 | S | EXTENSION 1 FILED | 6 | 000000 |
| 03/19/1996 | NOAM | 0 | NOTICE OF ALLOWANCE-MAILED | 5 | 000000 |
| 10/17/1995 | PUBO | A | PUBLISHED FOR OPPOSITION | 4 | 000000 |
| 09/15/1995 | NPUB | 0 | NOTICE OF PUBLICATION | 3 | 000000 |
| 07/10/1995 | CNSA | Р | APPROVED FOR PUB - PRINCIPAL REGISTER | 2 | 000000 |
| 07/07/1995 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 071994 |



Goods and Services

IC 005. US 044. G & S: teeth <u>bleaching</u> preparation sold in <u>syringes</u> which are contained as part of a kit for use in home dental <u>bleaching</u> procedures used under the direction and care of dentists. FIRST USE: 19900514. FIRST USE IN COMMERCE: 19900514

Mark Drawing Code
(2) DESIGN ONLY

Design Code 100701

Serial Number 74251861

Filing Date
March 3, 1992

Supplemental Register Date March 8, 1993

Registration Number 1791091

Registration Date
August 31, 1993

Owner Name and Address

(REGISTRANT) Ultradent Products Incorporated CORPORATION UTAH 1345 East 3900 South Salt Lake City UTAH 84124

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE the syringe apparatus apart from the manner in which the syringe apparatus is used to depict the dental bleaching preparation in the drawing APART FROM THE MARK AS SHOWN

Description of Mark

The mark consists of a depiction of the dental bleaching preparation which has been extruded onto the end of a finger of a gloved hand and further depicting a long strand of the dental bleaching preparation thereafter extruded form the end of the syringe.

Type of Mark

TRADEMARK

Register

SUPPLEMENTAL

Affidavit Text

SECT 8 (6-YR).

Live Dead Indicator

LIVE ·

Attorney of Record

Rick D. Nydegger

FILING DATE: 03/03/1992

REG. NUMBER: 1791091

REG. DATE: 08/31/1993

EXAMINER: 61380/RUPP, TERESA M. **EXMR LO:** 106 **LOCATION:** 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 11/26/1999

STATUS: 701-SECTION 8-ACCEPTED

STATUS DATE: 08/20/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 08/20/1999 | 8.OK | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED | 12 | 000000 |
| 08/18/1999 | PR23 | 0 | POST REGISTRATION ACTION MAILED - SEC. 8 & 15 | 11 | 000000 |
| 02/22/1999 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 10 | 000000 |
| 12/22/1993 | RRPR | I | RESPONSE RECEIVED TO POST REG. ACTION | 9 | 000000 |
| 12/08/1993 | PRAM | О | POST REGISTRATION ACTION MAILED - SEC. 7 | 8 | 000000 |
| 09/30/1993 | PINT | Ο. | NEW REG. CERT. REPRINTING DUE TO OFFICE OR PRINTING ERROR | 7 | 000000 |
| 08/31/1993 | R.SR | A | REGISTERED-SUPPLEMENTAL REGISTER | 6 | 000000 |
| 04/13/1993 | CNTA | О | APPROVED FOR REGISTRATION SUPPLEMENTAL REGISTER | 5 | 000000 |
| 03/08/1993 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 4 | 000000 |
| 11/30/1992 | CNRT | F | NON-FINAL ACTION MAILED | 3 | 000000 |
| 11/18/1992 | DOCK | D | ASSIGNED TO EXAMINER | 2 | 061380 |
| 05/06/1992 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 070740 |

*** User: levans *** Serial Number: 74232799 *** 10/2/02 2:55:33 PM ***

[Typed Drawing]

Mark

ULTRADENT

Pseudo Mark
ULTRA-DENT

Goods and Services

IC 005. US 004 006 018 044. G & S: dental tissue management kits for crown preparation consisting primarily of hemostatic solution, applicators, and retraction cords; dental preparations; namely, polish for restoring dental composite, amalgams and castings, diamond polishing agent for polishing dental porcelain, porcelain etching agent, silanes as wetting agents, polyacrylic dentin conditioner, drying agent, dentin indicator, dentin sealant, enamel bonding resin, a solution for preventing instruments from sticking to dental composite during contouring procedures, and a light-curing resin for dental application; kits consisting of dental preparations for porcelain etching. FIRST USE: 19860700. FIRST USE IN COMMERCE: 19860700

IC 009. US 026 039. G & S: neck strap for eyeglasses, protective eyeglasses, and protective face mask straps for attaching mouthguards to helmets. FIRST USE: 19880700. FIRST USE IN COMMERCE: 19880700

IC 010. US 044. G & S: dental kits consisting primarily of dental burs, organizer racks for use in holding dental handpieces, stainless trays for use in taking dental impressions, gloves for use over surgical gloves in order to prevent cross-contamination, surgical face masks, racks for holding surgical gloves, and sheets used in forming custom dental trays used in dental **bleaching** kits. FIRST USE: 19880700. FIRST USE IN COMMERCE: 19880700

IC 001. US 006 052. G & S: anti-fogging agent for use on eyeglasses and dental mirrors. FIRST USE: 19880700. FIRST USE IN COMMERCE: 19880700

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 74232799

Filing Date
December 19, 1991

Publication for Opposition Date December 8, 1992

Registration Number 1768335

Registration Date May 4, 1993

Owner Name and Address

*** Search: 18 *** Document Number: 74 ***

(cont)

(REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 1345 East 3900 South Salt Lake City UTAH 84124

Prior Registration(s) 1376854

Type of Mark
TRADEMARK

Register PRINCIPAL

Affidavit Text SECT 15. SECT 8 (6-YR).

Live Dead Indicator LIVE

Attorney of Record RICK D NYDEGGER

FILING DATE: 12/19/1991

REG. NUMBER: 1768335

REG. DATE: 05/04/1993

EXAMINER: 69721/VLCEK, TOMAS V. EXMR LO: 115

LOCATION: 900-FILE REPOSITORY (FRANCONIA)

DATE IN LOC: 10/21/1999

STATUS: 702-SECTION 8 & 15-ACCEPTED AND ACKNOWLEDGED

STATUS DATE: 09/20/1999

| DATE | ENT CD | ENT TYPE | DESCRIPTION | ENT NUM | PRCD NUM |
|------------|-----------|-------------|--|------------|-------------|
| 09/20/1999 | C15A | 0 | REGISTERED - SEC. 8 (6-YR) ACCEPTED & SEC. 15 ACK. | 9 | 000000 |
| 04/05/1999 | 815F | I | REGISTERED - SEC. 8 (6-YR) & SEC. 15 FILED | 8 | 000000 |
| 05/04/1993 | R.PR | A | REGISTERED-PRINCIPAL REGISTER | 7 | 000000 |
| 12/08/1992 | PUBO | A | PUBLISHED FOR OPPOSITION | 6 | 000000 |
| 11/06/1992 | NPUB | 0 | NOTICE OF PUBLICATION | 5 | 000000 |
| 08/21/1992 | CNSA | 0 | APPROVED FOR PUB - PRINCIPAL REGISTER | 4 | 000000 |
| 07/27/1992 | CRFA | I | COMMUNICATION RECEIVED FROM APPLICANT | 3 | 000000 |
| 05/29/1992 | CNRT | F | NON-FINAL ACTION MAILED | 2 | 000000 |
| 04/21/1992 | DOCK | D | ASSIGNED TO EXAMINER | 1 | 069721 |

*** User: levans *** Serial Number: 75976934 *** 10/2/02 11:36:16 AM ***

[Missing Image]

Mark

THE SYRINGE PEOPLE

Goods and Services

IC 010. US 026 039 044. G & S: dental devices and equipment, namely syringes and syringe delivery tips used for delivering dental materials to tooth surfaces such as bonding primer, mixed cements, resins, impression materials, saline solutions, and medicaments; dental examination gloves and face masks; racks for dental gloves and instruments; stainless steel trays for use in taking dental impressions; tray, splint, and mouthguard polypropylene sheets for use by dentists in making tray appliances; and dental burrs and accessories therefor. FIRST USE: 19970326. FIRST USE IN COMMERCE: 19970326

IC 005. US 006 018 044 046 051 052. G & S: dental preparations for professional use, namely composite polish for use on dental composites; diamond polishing agent for dental porcelain; silane, polyacrylic dentin conditioner sealant, and agent; drying agent, indicator remover, enamel bonding and light-curing resins, and a solution for preventing instruments from sticking to dental composites during contouring procedures; dental porcelain etching kits consisting essentially of etching compounds and applicators; and gum tissue management kit consisting essentially of hemostatic solution, applicators, and retraction cords. FIRST USE: 19950901. FIRST USE IN COMMERCE: 19950901

IC 003. US 001 004 006 050 051 052. G & S: toothpaste. FIRST USE:
19961016. FIRST USE IN COMMERCE: 19961016

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 75976934

Filing Date February 22, 1995

Filed ITU FILED AS ITU

Publication for Opposition Date June 4, 1996

Registration Number 2151499

Registration Date
April 14, 1998

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South So. Jordan UTAH 84065

Disclaimer Statement

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "SYRINGE" APART FROM THE MARK AS SHOWN

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator LIVE

Attorney of Record Rick D. Nydegger

*** Search: 13 *** Document Number: 1 ***

[Typed Drawing]

Mark

VITALESCENCE

Pseudo Mark
VITAL ESSENCE

Goods and Services

(CANCELLED) IC 005. US 006 018 044 046 051 052. G & S: tooth whiteners, namely, neutral sodium fluoride sustained release gel for use by dentists. FIRST USE: 19980728. FIRST USE IN COMMERCE: 19980728

(CANCELLED) IC 010. US 026 039 044. G & S: kits used for topical application of tooth-whitening gels, comprised of dental trays, syringes and toothbrushes. FIRST USE: 19980728. FIRST USE IN COMMERCE: 19980728

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 75357948

Filing Date
August 26, 1997

Filed ITU
FILED AS ITU

Publication for Opposition Date July 28, 1998

Registration Number 2242070

Registration Date
April 27, 1999

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South Jordan UTAH 84065

Type of Mark
TRADEMARK

Register PRINCIPAL

Live Dead Indicator DEAD

Cancellation Date September 30, 2002

Attorney of Record

*** Search: 14 *** Document Number: 2 *** (cont)

RICK D NYDEGGER

*** User: levans *** Serial Number: 74653801 *** 10/2/02 11:36:16 AM ***

[Missing Image]

Mark

ULTRADENT

Goods and Services IC 003. US 001 004 006 050 051 052. G & S: toothpaste. FIRST USE: 19950320. FIRST USE IN COMMERCE: 19950320

Mark Drawing Code
(1) TYPED DRAWING

Serial Number 74653801

Filing Date
March 30, 1995

Publication for Opposition Date November 21, 1995

Registration Number 1956381

Registration Date February 13, 1996

Owner Name and Address (REGISTRANT) Ultradent Products, Inc. CORPORATION UTAH 505 West 10200 South South Jordan UTAH 84065

Prior Registration(s) 1376854;1768335

Type of Mark
TRADEMARK

Register PRINCIPAL

Affidavit Text SECT 15. SECT 8 (6-YR).

Live Dead Indicator LIVE

Attorney of Record RICK D. NYDEGGER

=> fil reg FILE 'REGISTRY' ENTERED AT 11:03:41 ON 02 OCT 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 OCT 2002 HIGHEST RN 457857-22-6 DICTIONARY FILE UPDATES: 1 OCT 2002 HIGHEST RN 457857-22-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L83 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2002 ACS

RN 113289-85-3 REGISTRY

CN Urea, compd. with hydrogen peroxide (H2O2) (1:1), monosodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hydrogen peroxide (H2O2), compd. with urea (1:1), monosodium salt (9CI)

MF C H4 N2 O . H2 O2 . Na

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 7722-84-1 CMF H2 O2

но-он

Jan Delaval Reference Librarian Biotechnology & Chemical Library CM1 1E07 – 703-308-4498 jan.delaval@uspto.gov

CM 2

CRN 57-13-6 CMF C H4 N2 O

О || Н2N— С— NH2

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 109:156315

REFERENCE 2: 108:114730

```
L83 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2002 ACS
RN
    100678-45-3 REGISTRY
     Urea, mixt. with hydrogen peroxide (H2O2) (9CI)
                                                     (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Hydrogen peroxide (H2O2), mixt. contg. (9CI)
    C H4 N2 O . H2 O2
MF
CI
    MXS
SR
    CA
                  BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX, GMELIN*
LC
     STN Files:
         (*File contains numerically searchable property data)
     CM
     CRN 7722-84-1
     CMF H2 O2
но-он
     CM
          2
    CRN 57-13-6
     CMF C H4 N2 O
    0
H2N-C-NH2
               1 REFERENCES IN FILE CA (1962 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
          1: 104:102266
REFERENCE
L83 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2002 ACS
     62133-04-4 REGISTRY
RN
    Nitric acid, potassium salt (3:1) (9CI) (CA INDEX NAME)
CN
OTHER NAMES:
CN
    Potassium dihydrogenotrinitrate
MF
    H N O3 . 1/3 K
                 CA, CAPLUS, GMELIN*
LC
     STN Files:
         (*File contains numerically searchable property data)
CRN
    (7697 - 37 - 2)
   0
О== И− ОН
 1/3 K
               3 REFERENCES IN FILE CA (1962 TO DATE)
               3 REFERENCES IN FILE CAPLUS (1962 TO DATE)
```

1: 137:114628

REFERENCE

REFERENCE 2: 95:70199

REFERENCE 3: 86:113226

L83 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2002 ACS

RN 17120-39-7 REGISTRY

CN Nitric acid, potassium salt (2:1) (8CI) (CA INDEX NAME)

MF H N O3 . 1/2 K

LC STN Files: CA, CAPLUS, GMELIN*

(*File contains numerically searchable property data)

CRN (7697-37-2)

1/2 K

1 REFERENCES IN FILE CA (1962 TO DATE) 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 67:120494

L83 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2002 ACS

RN 14479-85-7 REGISTRY

CN Urea, compd. with hydrogen peroxide (H2O2) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hydrogen peroxide (H2O2), compd. with urea (9CI)

CN Hydrogen peroxide, compd. with urea (8CI)

CN Urea, compd. with hydrogen peroxide (8CI)

OTHER NAMES:

CN Urea peroxyhydrate

MF C H4 N2 O . x H2 O2

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, GMELIN*, IFICDB, IFIPAT, IFIUDB, RTECS*, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

CM 1

CRN 7722-84-1

CMF H2 O2

но-он

CM 2

CRN 57-13-6 CMF C H4 N2 O

O || H2N-C-NH2

32 REFERENCES IN FILE CAPLUS (1962 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967) 1: 137:67458

REFERENCE REFERENCE 2: 137:47348 136:295017 REFERENCE 3: 134:253927 REFERENCE 4: REFERENCE 5: 134:149334 REFERENCE 133:73921 6: REFERENCE 7: 132:37276 REFERENCE 8: 131:338634 REFERENCE 9: 131:144561 REFERENCE 10: 130:311436 L83 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2002 ACS 9004-64-2 REGISTRY RN Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME) CN OTHER NAMES: 2-Hydroxypropyl cellulose CN Aqualon Klucel L CN Cellulose hydroxypropyl ether CN CN EF 10 EF 10 (cellulose derivative) CN Fuji HEC-SG 25F CN G 4000HXL CN CN HPC CN HPC-E CN HPC-E (cellulose derivative) CN HPC-EF-G CN HPC-H HPC-L CN HPC-LE-G CN CN HPC-LG HPC-LR CN CN HPC-M HPC-MF CN HPC-MG CN CN HPC-S HPC-S (cellulose derivative) CN CN HPC-SL HPC-SSL CN CN Hydropropyl cellulose Hydroxypropyl cellulose CN Hydroxypropyl cellulose ether CN Hydroxypropyl ether of cellulose CN CN Hyprolose JK 491 CN CN Klucel Klucel 98 HF-EP CN Klucel 99 MF-EP CN CN Klucel 99E CN Klucel 99EF CN Klucel 99G CN Klucel 99GF-EP

```
CN
     Klucel 99M
CN
     Klucel E
CN
     Klucel E 5
CN
     Klucel EEL
     Klucel EF
CN
     Klucel EXF
CN
     Klucel G
CN
     Klucel Gf
CN
CN
     Klucel H
     Klucel HF
CN
     Klucel HF-NF
CN
     Klucel HW
CN
     Klucel HXF
CN ·
     Klucel J
CN
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
     DISPLAY
     9076-24-8, 173523-78-9, 65742-73-6, 78214-41-2, 150873-09-9, 192006-47-6,
DR
     193561-69-2, 210920-15-3
     C3 H8 O2 . x Unspecified
MF
CI
     COM
     Manual registration, Polyother, Polyother only
PCT
                   AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT,
LC
       CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES,
       DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
          (*File contains numerically searchable property data)
                      DSL**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
     CM
          1
     CRN
          9004-34-6
     CMF
          Unspecified
     CCI
          PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 57-55-6
     CMF C3 H8 O2
     OH
H3C-СH-СH2-ОН
             6435 REFERENCES IN FILE CA (1962 TO DATE)
             158 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             6456 REFERENCES IN FILE CAPLUS (1962 TO DATE)
REFERENCE
             1: 137:208425
REFERENCE
             2:
                 137:208079
REFERENCE
             3:
                 137:206570
REFERENCE
                 137:206565
             4:
REFERENCE
                 137:206559
             5:
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REFERENCE

6: 137:206549

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7: 137:206539
REFERENCE
REFERENCE
            8:
                137:206538
REFERENCE
            9:
                137:205251
REFERENCE 10: 137:205232
L83 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2002 ACS
RN
    7757-79-1 REGISTRY
CN
    Nitric acid potassium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
    Collo-Bo
CN
CN
    Niter
     Nitre
CN
CN
    Nitric acid potassium salt (1:1)
     Nitric acid, potassium salt
CN
CN
     Potassium nitrate
     Saltpeter
CN
     96193-83-8
DR
    H N 03 . K
MF
CI
    COM
LC
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
     STN Files:
       BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
       DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*,
       HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
       NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2,
       USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
CRN
    (7697 - 37 - 2)
```

K

12220 REFERENCES IN FILE CA (1962 TO DATE)
108 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12228 REFERENCES IN FILE CAPLUS (1962 TO DATE)

1: 137:210018 REFERENCE REFERENCE 2: 137:209956 REFERENCE 3: 137:208243 REFERENCE 4: 137:207719 REFERENCE 5: 137:207071 137:206972 REFERENCE 6:

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REFERENCE
             7: 137:205220
REFERENCE
                  137:203996
             8:
REFERENCE
             9:
                  137:203515
REFERENCE 10: 137:203302
L83 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2002 ACS
RN
     7722-84-1 REGISTRY
CN
     Hydrogen peroxide (H2O2) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Hydrogen peroxide (8CI)
CN
OTHER NAMES:
CN
     Albone
     Albone 35
CN
CN
     Albone DS
CN
     Anti-Keim 50
CN
     Baquashock
CN
     CIX
     Hipox
CN
     Hybrite
CN
     Hydrogen dioxide
CN
CN
     Inhibine
     Metrokur
CN
CN
     Odosat D
     Oxydol
CN
     Oxyfull
CN
CN
     Oxysept I
     Perhydrol
CN
CN
     Perone
CN
     Peroxaan
CN
     Peroxclean
CN
     Select Bleach
CN
     Superoxol
CN
     T-Stuff
FS
     3D CONCORD
     8007-30-5, 66554-50-5, 37355-84-3, 218625-72-0
DR
MF
     H2 O2
CI
     COM
LC
     STN Files:
                   ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
        BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
        CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
        ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
          (*File contains numerically searchable property data)
                        DSL**, EINECS**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

но-он

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

66012 REFERENCES IN FILE CA (1962 TO DATE)
587 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
66126 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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137:209853
REFERENCE
            1:
                137:209834
REFERENCE
            2:
                137:209373
REFERENCE
            3:
                137:209333
REFERENCE
            4:
REFERENCE
            5:
                137:209332
                137:208371
REFERENCE
            6:
REFERENCE
            7:
                137:208252
            8:
                137:208250
REFERENCE
                137:206621
REFERENCE
            9:
REFERENCE 10: 137:206518
L83 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2002 ACS
     7681-49-4 REGISTRY
RN
     Sodium fluoride (NaF) (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Sodium fluoride (8CI)
OTHER NAMES:
CN
     Act
     Act (mouthwash)
CN
     Antibulit
CN
     Duraphat
CN
     FDA 0101
CN
     Floridine
CN
     Florocid
CN
     Fludent
CN
     Fluoraday
CN
     Fluorigard
CN
     Fluorol
CN
     Fluorzoin
CN
     Flura Drops
CN
     Flurexal
CN
     Flursol
CN
     Fungol B
CN
     Karidium
CN
     Karigel N
CN
     Miranol
CN
CN
     Neosten
CN
     Ora-Bliss
CN
     Ossin
     Osteofluor
CN
     Pergantene
CN
     Prevident
CN
CN
     Prevident 5000 Plus
     Prodent
CN
     Sodium monofluoride
CN
     Sodium monofluoride (NaF)
CN
     T-Fluoride
CN
CN
     Thera Flur
     Winterfresh Gel
CN
CN
     Zymafluor
     59217-75-3, 67112-29-2, 39287-69-9
DR
MF
     F Na
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
LC
     STN Files:
```

BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

17439 REFERENCES IN FILE CA (1962 TO DATE)

F-Na

CN CN

CN

Acematt OK 607

Acematt TS 100

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111 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           17448 REFERENCES IN FILE CAPLUS (1962 TO DATE)
               4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
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            2:
               137:208099
REFERENCE
REFERENCE
            3:
               137:207936
REFERENCE
            4:
               137:207864
REFERENCE
            5:
               137:207683
REFERENCE
            6:
               137:207570
REFERENCE
            7:
               137:206850
REFERENCE
            8:
               137:206549
            9:
               137:206407
REFERENCE
REFERENCE 10: 137:206245
L83 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2002 ACS
    7631-86-9 REGISTRY
RN
CN
    Silica (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN
    1165MP
CN
    175GR
CN
    300CF
CN
     30R50
CN
     30R7
CN
     3K
CN
     3KS
CN
     400WO
CN
     5X
CN
     937L
CN
     940UP
CN
     955W
CN
     980H
CN
    A 175
CN
    A 200
CN
    A 300
CN
    A 380
    Acematt HK 400
```

```
CN
     Acticel
     Adelite 20N
CN
     Adelite 30
CN
CN
     Adelite A
     Adelite AD 321
CN
CN
     Adelite AT
CN
     Adelite AT 20
     Adelite AT 20A
CN
     Adelite AT 20N
CN
CN
     Adelite AT 20Q
CN
     Adelite AT 20S
     Adelite AT 30
CN
     Adelite AT 30A
CN
     Adelite AT 30B
CN
CN
     Adelite AT 30S
     Adelite AT 40
CN
CN
     Adelite AT 50
     Adelite BT 55
CN
     Adelite BT 59
CN
     Adelite CT 100
CN
     Adelite CT 300
CN
CN
     Admafine C 5
CN
     Admafine SD 25R
CN
     Admafine SE 5100
CN
     Admafine SO-C 1
CN
     Admafine SO-C 5
CN
     Admafine SO-E 1
CN
     Admafine SO-E 2
CN
     Admafine SO-E 5
CN
     Admatechs SO-E 2
CN
     Cab-O-Sil EH 5
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
     DISPLAY
FS
     3D CONCORD
     11139-72-3, 11139-73-4, 12125-13-2, 12737-36-9, 12753-63-8, 12765-74-1,
DR
     12774-28-6, 9049-77-8, 1340-09-6, 172306-09-1, 173299-41-7, 127689-16-1,
     127831-27-0, 126879-14-9, 126879-30-9, 126879-49-0, 53468-64-7,
     125623-17-8, 56645-27-3, 56731-06-7, 122985-48-2, 55599-33-2, 60572-11-4,
     62655~73-6, 97343-62-9, 97709-14-3, 98226-40-5, 98253-25-9, 67167-16-2,
     113384-41-1, 50813-13-3, 50926-93-7, 50935-83-6, 51542-57-5, 51542-58-6,
     61673-46-9, 108727-71-5, 136881-80-6, 37220-24-9, 37241-25-1, 37334-65-9,
     37340-45-7, 37380-93-1, 139074-73-0, 137263-03-7, 145686-91-5,
     145808-77-1, 70536-23-1, 70563-35-8, 78207-17-7, 146585-72-0, 152787-33-2,
     155552-25-3, 155575-05-6, 83589-56-4, 83652-92-0, 149779-02-2, 87501-59-5,
     89493-21-0, 39336-66-8, 39372-58-2, 39409-25-1, 39443-40-8, 39456-81-0,
     52350-43-3, 179046-03-8, 179733-77-8, 185461-90-9, 188357-77-9,
     191289-29-9, 206770-31-2, 207868-97-1, 217643-58-8, 264907-28-0,
     330152-64-2, 341028-71-5, 368432-40-0
MF
     02 Si
CI
     COM
                  ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS,
LC
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
       DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHARMASEARCH, PIRA,
       PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU,
         (*File contains numerically searchable property data)
                    DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

o = si = o

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243890 REFERENCES IN FILE CA (1962 TO DATE)
            4852 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
          244358 REFERENCES IN FILE CAPLUS (1962 TO DATE)
                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
            1: 137:210039
REFERENCE
                137:210029
REFERENCE
            2 .
REFERENCE
            3:
                137:209971
                137:209970
REFERENCE
            4:
                137:209824
REFERENCE
            5:
                137:209754
REFERENCE
            6:
            7:
                137:209747
REFERENCE
                137:209739
REFERENCE
            8:
                137:209528
REFERENCE
            9:
REFERENCE 10: 137:209518
L83 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2002 ACS
     1310-73-2 REGISTRY
     Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Sodium hydroxide (8CI)
OTHER NAMES:
CN
     Aetznatron
CN
     Ascarite
CN
    Caustic soda
     Collo-Grillrein
CN
     Collo-Tapetta
CN
     GR (alkali reagent)
CN
     Soda, caustic
CN
     White caustic
CN
     8012-01-9
DR
     H Na O
MF
CI
     COM
     STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
LC
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
          (*File contains numerically searchable property data)
                      DSL**, EINECS**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
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57693 REFERENCES IN FILE CA (1962 TO DATE)

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388 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           57775 REFERENCES IN FILE CAPLUS (1962 TO DATE)
                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1: 137:210126
REFERENCE
            2:
                137:210050
                137:209823
REFERENCE
            ₹.
REFERENCE
            4:
                137:209532
            5:
                137:209495
REFERENCE
REFERENCE
            6:
                137:209268
REFERENCE
            7:
                137:209103
REFERENCE
            8:
                137:208653
            9:
                137:208314
REFERENCE
REFERENCE 10: 137:208279
L83 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2002 ACS
     1310-58-3 REGISTRY
RN
     Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Potassium hydroxide (8CI)
CN
OTHER NAMES:
     Caustic potash
CN
     Cyantek CC 723
CN
     Potash
CN
     71769-53-4, 29857-72-5
DR
MF
     нко
CI
     COM
                 ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
       DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
       GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
          (*File contains numerically searchable property data)
     Other Sources:
                       DSL**, EINECS**, TSCA**
          (**Enter CHEMLIST File for up-to-date regulatory information)
K-OH
            23807 REFERENCES IN FILE CA (1962 TO DATE)
              178 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            23851 REFERENCES IN FILE CAPLUS (1962 TO DATE)
REFERENCE
            1: 137:209800
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2: 137:209495

3: 137:209373

4: 137:209268

REFERENCE

REFERENCE

REFERENCE

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REFERENCE
            6:
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REFERENCE
                 137:208266
            7:
REFERENCE
                 137:207734
            8:
REFERENCE
            9:
                 137:207733
REFERENCE 10:
                 137:207016
L83 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2002 ACS
RN
     124-43-6 REGISTRY
     Urea, compd. with hydrogen peroxide (H2O2) (1:1) (9CI) (CA INDEX NAME)
ÇN
OTHER CA INDEX NAMES:
     Hydrogen peroxide (H2O2), compd. with urea (1:1) (9CI)
CN
     Hydrogen peroxide, compd. with urea (1:1) (8CI)
CN
     Urea, compd. with H2O2 (6CI, 7CI)
CN
     Urea, compd. with hydrogen peroxide (1:1) (8CI)
CN
OTHER NAMES:
     Carbamide peroxide
CN
CN
     Colgate Platinum
CN
     Contrast PM
CN
     Gly-oxide
     Hydrogen peroxide-urea adduct (1:1)
CN
     Hydrogen peroxide-urea compound (1:1)
CN
CN
     Hydroperit
     Hydroperite
CN
     Hyperol
CN
CN
     Opalescence
     Opalescence Quick
CN
CN
     Ortizon
     Percarbamid
CN
CN
     Percarbamide
CN
     Perfecta Trio
     Perhydrit
CN
     Quik Start
CN
     Thenardol
CN
     Urea dioxide
CN
CN
     Urea hydrogen peroxide
     Whiteness Super
CN
     12263-76-2, 12772-89-3, 37211-55-5
DR
MF
     C H4 N2 O . H2 O2
CI
     COM
     STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
LC
       CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT,
       IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PHAR, PROMT, TOXCENTER, USAN,
       USPAT2, USPATFULL
          (*File contains numerically searchable property data)
                       EINECS**, NDSL**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
     CM
          1
     CRN 7722-84-1
     CMF H2 O2
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CM
          2
     CRN 57-13-6
     CMF C H4 N2 O
    0
H2N-C-NH2
             672 REFERENCES IN FILE CA (1962 TO DATE)
               6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             675 REFERENCES IN FILE CAPLUS (1962 TO DATE)
              17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
            1: 137:206248
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                137:206174
REFERENCE
            2:
                137:206173
            3:
REFERENCE
            4:
                137:174782
REFERENCE
REFERENCE
            5:
                137:145247
                137:145184
REFERENCE
            6:
            7:
                137:145181
REFERENCE
                137:129588
            8:
REFERENCE
                137:129536
REFERENCE
            9:
REFERENCE 10:
                137:117968
L83 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2002 ACS
     57-55-6 REGISTRY
RN
     1,2-Propanediol (8CI, 9CI) (CA INDEX NAME)
CN
OTHER NAMES:
    (.+-.)-1,2-Propanediol
CN
     (.+-.)-Propylene glycol
CN
     (RS)-1,2-Propanediol
CN
     .alpha.-Propylene glycol
CN
CN
     1,2-(RS)-Propanediol
CN
     1,2-Dihydroxypropane
     1,2-Propylene glycol
CN
     1000PG
CN
     2,3-Propanediol
CN
     2-Hydroxypropanol
CN
CN
     DL-1,2-Propanediol
     dl-Propylene glycol
CN
     Dowfrost
CN
     Isopropylene glycol
CN
CN
     Methylethyl glycol
CN
     Methylethylene glycol
CN
     Monopropylene glycol
CN
     PG 12
     Propylene glycol
```

CN CN

CN

Sirlene

Solar Winter Ban

```
CN
     Solargard P
CN
     Ucar 35
     3D CONCORD
FS
     63625-56-9, 4254-16-4, 190913-75-8
DR
MF
     C3 H8 O2
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
       DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
       IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHAR, PIRA,
       PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,
       USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
                     DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
    OH
H3C-СH-СH2-ОН
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           17733 REFERENCES IN FILE CA (1962 TO DATE)
            2341 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           17775 REFERENCES IN FILE CAPLUS (1962 TO DATE)
              19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1: 137:208412
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REFERENCE
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REFERENCE
            4:
                137:206536
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            5:
                137:206374
REFERENCE
            6:
                137:206347
                137:206342
REFERENCE
            7:
                137:206214
REFERENCE
            8:
REFERENCE
            9:
                137:206191
REFERENCE 10: 137:206175
L83 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2002 ACS
     56-81-5 REGISTRY
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Glycerol (8CI)
     Propanetriol (7CI)
CN
OTHER NAMES:
CN
     1,2,3-Trihydroxypropane
CN
     Glycerin
CN
     Glycerine
```

CN

Glyceritol

```
rose - 10 / 045184
CN
    Glycyl alcohol
CN
    Glyrol
     Glysanin
CN
CN
     Osmoglyn
CN
     Pricerine 9091
     Trihydroxypropane
CN
     30918-77-5
AR
FS
     3D CONCORD
     8013-25-0, 37228-54-9, 75398-78-6, 78630-16-7, 29796-42-7, 30049-52-6
DR
MF
     C3 H8 O3
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
       DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
       IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*,
       PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
       TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
        ОН
HO-CH2-CH-CH2-OH
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           45925 REFERENCES IN FILE CA (1962 TO DATE)
            4638 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           46003 REFERENCES IN FILE CAPLUS (1962 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
            1: 137:210122
REFERENCE
                137:209174
            2:
REFERENCE
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3: 137:208412 REFERENCE 137:207764 REFERENCE 4: 137:206927 REFERENCE 5: 137:206820 REFERENCE 6: 7: 137:206609 REFERENCE 137:206593 8: REFERENCE 137:206592 REFERENCE 9: 137:206545 REFERENCE 10:

=> fil hcaplus
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FILE COVERS 1907 - 2 Oct 2002 VOL 137 ISS 14 FILE LAST UPDATED: 1 Oct 2002 (20021001/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> d all tot 181

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L81 ANSWER 1 OF 34 HCAPLUS COPYRIGHT 2002 ACS
```

AN 2002:553057 HCAPLUS

DN 137:114276

TI Dental bleaching gel composition, activator system and method for activating a dental bleaching gel

IN Banerjee, Abjit; Friedman, Joshua

PA Addent Inc., USA

SO Eur. Pat. Appl., 10 pp. CODEN: EPXXDW

DT Patent

LA English

IC ICM A61K006-00 ICS A61K007-16

CC 62-7 (Essential Oils and Cosmetics) Section cross-reference(s): 63

FAN.CNT 1

APPLICATION NO. DATE PATENT NO. KIND DATE -----_____ ----EP 1224925 A2 20020724 EP 2002-1594 20020123 PΙ R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR A2 20020814 JP 2002226349 JP 2002-12709 20020122 PRAI US 2001-767384 20010123 Α

Disclosed is a dental bleaching gel compn. having a long shelf life for use with an activator system to cause accelerated bleaching action of a peroxide bleaching agent in the bleaching gel compn. when applied upon a tooth surface and to a method for applying and activating a dental bleaching gel upon a tooth surface for cosmetically whitening the tooth and/or for the treatment of stains or discolorations over a shortened time period. The dental bleaching gel has a pH independent thickening agent, a stabilizing agent for the peroxide bleaching agent and a FD&C approved dye. The activator system comprises an activator for accelerating the bleaching action of the peroxide bleaching agent and an applicator for storing the activator in a dry form sepd. from the bleaching gel compn. such that upon contacting the applicator to the bleaching gel compn. The

peroxide bleaching agent contained in the gel is activated with the applicator being used to substantially simultaneously apply the bleaching gel to the teeth to be bleached. The activator is selected from the group consisting of manganous chloride, manganous citrate, ferrous sulfate, sodium carbonate or bicarbonate, and catalase. dental bleaching peroxide gel activator ST Natural fibers IΤ Synthetic fibers RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (applicators comprising; dental bleaching gels and activator systems) Antioxidants IT Bleaching agents Chelating agents Dentifrices (dental bleaching gels and activator systems) Peroxides, biological studies TΤ RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (dental bleaching gels and activator systems) 56-81-5, Glycerol, biological studies 139-33-3, TT 144-55-8, Sodium bicarbonate, biological studies Disodium EDTA 497-19-8, Sodium carbonate, biological studies 1934-21-0 2783-94-0, FD&C Yellow 6 2817-45-0, Aminophosphonic acid 7647-14-5, Sodium chloride, biological studies 7720-78-7, Ferrous sulfate 7722-84-1, Hydrogen peroxide, biological 7773-01-5, Manganous chloride 7757-83-7, Sodium sulfite studies 9003-11-6, Polyethyleneoxide-polypropylene oxide 9001-05-2, Catalase 25956-17-6, FD&C Red 40 71799-92-3, Manganese citrate 14332-39-9 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (dental bleaching gels and activator systems) ANSWER 2 OF 34 HCAPLUS COPYRIGHT 2002 ACS L812001:687315 HCAPLUS AN135:215800 DN Dual-component oral compositions having accelerated TΙ tooth whitening effect Masters, James G.; Gambogi, Robert J.; Wong, Mike; Hoic, Diego A.; Drago, TN Vincent O. Colgate-Palmolive Co., USA PA U.S., 6 pp. SO CODEN: USXXAM DT Patent LA English ICM A61K007-16 IC ICS A61K007-20 NCL 424053000 62-7 (Essential Oils and Cosmetics) CC FAN.CNT 1 PATENT NO. APPLICATION NO. DATE KIND DATE PΙ US 6290935 В1 20010918 US 2000-621363 20000721 20020131 WO 2001-US22814 20010719 WO 2002007695 A2 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RO, RU, VN, YU, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-621363

Α

20000721

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AB
     Disclosed is a two component whitening
     dentifrice compn. which exhibits rapid whitening of
     stained or discolored teeth. The compn.
     comprises a first dentifrice component contg. a
     peroxide compd. and the second component contg. Fe ion-implanted
     silicate clay, the first and second dentifrice
     components being maintained sep. from each other until
     dispensed for application to teeth requiring the removal
     of stain and discoloration. A dentifrice
     compn. contg. Fe laponite D and H2O2 in a sep.
     compartment, was prepd.
     dentifrice peroxide iron implanted clay whitening
ST
TΤ
     Clays, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (magnesium alkali metal silicate; tooth whitening
        dual-component dentifrices contg. peroxides
        and iron-implanted clays)
TΤ
    Dentifrices
        (tooth whitening dual-component
        dentifrices contg. peroxides and iron-implanted minerals)
     Peroxides, biological studies
ΙT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth whitening dual-component
        dentifrices contg. peroxides and iron-implanted minerals)
     7722-84-1, Hydrogen peroxide, biological
IΤ
               153301-17-8D, Laponite D, iron-substituted
     studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth whitening dual-component
        dentifrices contg. peroxides and iron-implanted minerals)
              THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 18
RE
(1) Anon; EP 332551 1989 HCAPLUS
(2) Anon; WO 2000059461 2000
(3) Asakawa; US 4081526 1978
(4) Beck; US 5766574 1998 HCAPLUS
(5) Cao; US 4828723 1989 HCAPLUS
(6) Cao; US 4931195 1990 HCAPLUS
(7) Cornell; US 5032178 1991 HCAPLUS
(8) Fonsny; US 4846992 1989 HCAPLUS
(9) Gaffar; US 4537765 1985 HCAPLUS
(10) Gaffar; US 5648064 1997 HCAPLUS
(11) Harrison; US 4069310 1978 HCAPLUS
(12) Julemont; US 5004556 1991 HCAPLUS
(13) Prencipe; US 6106812 2000 HCAPLUS
(14) Prencipe; US 6110446 2000 HCAPLUS
(15) Wabi; US 5976508 1999 HCAPLUS
(16) Wiesel; US 6106293 2000
(17) Wong; US 5814304 1998 HCAPLUS
(18) Wong; US 5815514 1998
L81 ANSWER 3 OF 34 HCAPLUS COPYRIGHT 2002 ACS
     2001:491430 HCAPLUS
ΑN
DN
     135:42253
     An aldehyde-free sterilant and disinfectant based on a peroxide source
ΤI
IN
     Green, Bruce Philip
     Medichem International Ltd., UK
PΑ
SO
     Brit. UK Pat. Appl., 6 pp.
     CODEN: BAXXDU
DT
     Patent
LA
     English
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ICM A01N059-14
TC
ICI A01N059-14, A01N037-44
CC
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
                                          APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
    GB 2355198 A1 20010418 GB 1999-10514 19990506
PΤ
    A formulation is provided as a conc. for producing a biocidally active
AΒ
     soln. The formulation comprises a water sol. oxidant generator-peroxide
     source (e.g. hydrogen peroxide, sodium perborate or
     potassium peroxy monosulfate) and is in the form of: either a single-pack
     powder that is dild. and dissolved to produce the biocidally active soln.
     or a twin-pack liq. or liq. - and -solid formulation which (when
     the components are mixed or are dild., mixed
     and dissolved) provide the biocidally active soln. The formulation may
     optionally comprise a buffer (e.g. citric acid), an oxidant stable
     surfactant, a metal sequesterant (e.g. ethylenediamine
     tetramethylphosphonate), a peroxide reactant/trigger, a corrosion
     inhibitor, a color, a perfume or an indicator which improves
     effective hygiene performance. Tetraacetyl ethylene diamine (TAED) may be
     included as a potentiating ingredient which, under slightly alkali
     conditions of a buffered soln., is activated to produce a very effective
     low temp. biocide, by reacting with peroxide anions to produce peracetic
     anions. This combination of hydrogen peroxide,
     peracetic acid and peracetic anions is synergistic and produces a rapidly
     biocidal and sporicidal soln. with a very broad spectrum of activity. It
     may be used as a sterilant/sanitizer in medical, veterinary and food
     establishments (e.g. sterilizing medical and dental
     instruments).
     sterilant disinfectant biocide peroxide
ST
ΙT
     Sequestering agents
        (metal; peroxide-based sterilant and disinfectant formulations contq.)
ΙT
        (oxidant-stable; peroxide-based sterilant and disinfectant formulations
        contq.)
     Biocides
ΙT
     Disinfectants
     Pesticide formulations
        (peroxide-based sterilant and disinfectant formulations)
IT
     Buffers
     Coloring materials
     Corrosion inhibitors
     Perfumes
        (peroxide-based sterilant and disinfectant formulations contg.)
     1429-50-1, EDTMPA
ΙT
     RL: MOA (Modifier or additive use); USES (Uses)
        (EDTMPA; peroxide-based sterilant and disinfectant formulations contg.)
     77-92-9, Citric acid, uses 10543-57-4, TAED
IT
     RL: MOA (Modifier or additive use); USES (Uses)
        (peroxide-based sterilant and disinfectant formulations contg.)
IT
     14915-07-2, Peroxide
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (sterilant and disinfectant formulations based on)
     79-21-0, Peracetic acid 7632-04-4, Sodium perborate
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (sterilant and disinfectant formulations contg.)
L81 ANSWER 4 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
     2001:380363 HCAPLUS
DN
    134:371644
TΙ
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Teeth whitening product

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IN
     Pons Biescas, Antonio; Tur Mari, Josep Antoni; Riutord Sbert, Pere; Tauler
     Riera, Pedro; Gimeno Franco, Isabel; Balasch Risueno, Ignacio; Sancho
     Riera, Enriqueta
     Universitat de Les Illes Balears, Spain; Laboratorios Kin, S.A.
PA
SO
     PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Spanish
     ICM A61K007-28
ΙÇ
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
                                           APPLICATION NO.
                                                            DATE
                      KIND DATE
     PATENT NO.
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                                                            _____
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                            _____
                                           WO 2000-ES400
                                                            20001018
                            20010525
PΙ
     WO 2001035919
                       A1
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                           ES 1999-2522
                                                             19991117
                            20011201
     ES 2161631
                       Α1
                            20020601
     ES 2161631
                       B1
                       Α5
                            20010530
                                           AU 2001-10302
                                                             20001018
     AU 2001010302
     BR 2000015625
                       Α
                            20020730
                                           BR 2000-15625
                                                             20001018
                                           EP 2000-971448
                                                             20001018
     EP 1230908
                       Al
                            20020814
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
PRAI ES 1999-2522
                            19991117
                      Α
     WO 2000-ES400
                       W
                            20001018
     The invention relates to a teeth whitening product
AB
     contg. accessory components, in addn. to a teeth
     whitening compd. and peroxidase as a combined product that is used
     simultaneously, sep. or gradually over time. According to a
     preferred embodiment, the whitening compd. is hydrogen
     peroxide or a hydrogen peroxide precursor.
     The product is useful for whitening teeth and can be
     used as a dentifrice, collutory or for dental
     treatments.
     tooth whitening agent peroxide
ST
IT
     Phosphates, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (buffers; tooth-whitening product)
IT
     Drug delivery systems
        (emulsions; tooth-whitening product)
IT
     Dentifrices
        (gels; tooth-whitening product)
     Enzymes, biological studies
IT
     RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
     chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
        (immobilized; tooth-whitening product)
IT
     Encapsulation
        (microencapsulation; tooth-whitening product)
IT
     Buffers
        (phosphate; tooth-whitening product)
ΙT
     Dentifrices
       Whitening agents
     рΗ
        (tooth-whitening product)
     9003-99-0, Peroxidase
IT
     RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
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chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
        (horseradish; tooth-whitening product)
     124-43-6, Carbamide peroxide 7722-84-1
IT
      Hydrogen peroxide, biological studies
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BUU (Biological use, unclassified); BIOL (Biological
     study); USES (Uses)
        (tooth-whitening product)
ΙT
     87-66-1, Pyrogallol
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (tooth-whitening product)
                                  9002-17-9
                                              9029-44-1, Ascorbate oxidase
     9001-37-0, Glucose oxidase
IT
     9035-73-8, Oxidase
     RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
     chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
        (tooth-whitening product)
              THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE. CNT
RE
(1) Hoogendoorn, H; US 4150113 A 1979 HCAPLUS
(2) Hoogendoorn, H; US 4178362 A 1979 HCAPLUS
(3) Novonordisk As; WO 9706775 A 1997 HCAPLUS
(4) Pellico, M; US 4269822 A 1981 HCAPLUS
(5) Pellico, M; US 4537764 A 1985 HCAPLUS
(6) Pellico, M; US 4564519 A 1986 HCAPLUS
    ANSWER 5 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     2001:185529 HCAPLUS
ΑN
DN
     134:227157
TI
     Increased peroxide content tooth bleaching gel
     Pellico, Michael A.
ΙN
     Discus Dental, Inc., USA
PΑ
SO
     PCT Int. Appl., 18 pp.
     CODEN: PIXXD2
\mathsf{D}\mathbf{T}
     Patent
LA
     English
IC
     ICM A61K
CC
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 1
                                                            DATE
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
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                                           WO 2000-US40861 20000911
PI
    WO 2001017481
                       Α2
                            20010315
    WO 2001017481
                       ΑЗ
                            20010927
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    AU 2001012512
                       Α5
                            20010410
                                           AU 2001-12512
                                                             20000911
                                                             20000911
     BR 2000013912
                            20020514
                                           BR 2000-13912
                                           EP 2000-974089
                                                             20000911
     EP 1210062
                       A2
                            20020605
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
PRAI US 1999-153162P
                       Ρ
                            19990909
     WO 2000-US40861
                       W
                            20000911
     A two-component tooth whitening system which incorporates an increased
AB
     peroxide content, wherein the components are adapted to be mixed and
     applied to the teeth from a dental bleaching tray is provided. A first
     component includes both carbamide peroxide and
     hydrogen peroxide and a second component comprises an
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orally compatible activator gel. An example first component contained
     propylene glycol 33.00, Klucel 1.98, glycerin
     9.42, Cab-O-Sil EH-5
     4.50, carbamide peroxide 16.20, H2O2 11.80,
     glycerol 14.00, and Polawax 9.00 % by wt.
ST
     tooth bleaching gel peroxide
IT
     Bleaching
     Dentifrices
        (increased peroxide content tooth bleaching gel)
     7631-86-9, Cabosil, biological studies
ΙT
     RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
     BIOL (Biological study); USES (Uses)
        (colloidal; increased peroxide content tooth bleaching gel)
     124-43-6 7722-84-1, Hydrogen peroxide
ΙT
     , biological studies
                          14915-07-2, Peroxide
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (increased peroxide content tooth bleaching gel)
     56-81-5, Glycerol, biological studies 57-55-6,
IT
     Propylene glycol, biological studies 7320-34-5,
     Tetrapotassium pyrophosphate 7681-49-4, Sodium
     fluoride, biological studies 7757-79-1,
     Potassium nitrate, biological studies 9004-64-2
     , Hydroxypropyl cellulose 322645-84-1, Polawax NF
     RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
     BIOL (Biological study); USES (Uses)
        (increased peroxide content tooth bleaching gel)
    ANSWER 6 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     2000:756497 HCAPLUS
AN
DN
     133:325515
     Anti-tartar dental compositions containing calcium phosphate and fluoride
TI
     Lee, G. Jae; Ziemkiewicz, Alexander; Williams, David; Barrow, Stephen
IN
PA
     Unilever N. V., Neth.; Unilever Plc; Hindustan Lever Ltd.
SO
     PCT Int. Appl., 31 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A61K007-16
     ICS A61K007-18
     62-7 (Essential Oils and Cosmetics)
CC
     Section cross-reference(s): 63
FAN.CNT 1
                                           APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
                                           _____
                                                            _____
                           _____
                      _ ---
                            20001026
                                           WO 2000-EP2758
                                                           20000328
     WO 2000062749
                     A1
PΙ
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                            19990913
                                           US 1999-395064
                            20010327
     US 6207139
                      В1
                                                            20000328
                            20020213
                                           EP 2000-912656
     EP 1178773
                      Α1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                           US 2000-538564
                                                            20000329
                            20010619
     US 6248310
                      В1
                       Ρ
PRAI US 1999-129779P
                            19990416
                      A3
                            19990913
     US 1999-395064
                      W
                            20000328
     WO 2000-EP2758
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rose - 10 / 045184 AB An oral product is provided for inhibiting tartar formation on the teeth. The product is housed in a container and includes a first compn. contg. a water sol. calcium phosphate salt or monolithic combination of calcium and phosphate salts in a carrier with the first compn. having a pH less than 7, and a second compn. contg. an alk. material and a fluoride ion source in a carrier to achieve a pH greater than 7.5. The first and second compns. are sepd. from one another prior to use. When combined upon application to the teeth, the first and second compns. form a system for inhibiting tartar around the teeth. Thus, a gel compn. contained glycerin 40.00, Pluronic F-127 20.00, H202 4.29, CaCl2.2H2O 2.10, dibasic sodium phosphate 1.00, phosphoric acid 1.50, sodium citrate 0.53, FD&C Blue No.-1 0.01, and water to 100%. This was mixed with a toothpaste compn. contg. Polyol-II (70% sorbitol) 40.50, syloid 63XX (hydrated silica) 15.00, Sylox-15X 6.00, PEG-1450 3:00, EtOH 2.84, SLS 2.98, flavor 1.10, cellulose gum 0.80, sodium saccharin 0.54, menthol 0.50, NaF 0.44, TiO2 0.30, and water to 100% by wt. dental gel calcium phosphate fluoride; toothpaste calcium ST phosphate fluoride Carboxylic acids, biological studies TΤ RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (C2-20; anti-tartar dental compns. contg. calcium phosphate and fluoride) IT Dentifrices (anti-tartar dental compns. contq. calcium phosphate and fluoride) ΙT Acids, biological studies RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anti-tartar dental compns. contg. calcium phosphate and fluoride) IT Tooth (calculus; anti-tartar dental compns. contg. calcium phosphate and fluoride) ΙT Dentifrices (gels; anti-tartar dental compns. contg. calcium phosphate and fluoride) 62-54-4, Calcium acetate 144-55-8, Carbonic acid monosodium salt, TΤ biological studies 298-14-6 471-34-1, Calcium carbonate, biological 497-19-8, Sodium carbonate, biological studies 584-08-7 1305-78-8, Calcium oxide, biological studies 1310-58-3,

Potassium hydroxide (K(OH)), biological studies

1310-73-2, Sodium hydroxide (Na(OH)),

7440-66-6D, Zinc, salts, 3380-34-5, Triclosan biological studies 7558-79-4, Dibasic sodium phosphate 7632-05-5, biological studies Sodium phosphate 7681-49-4, Sodium fluoride,

biological studies 7722-84-1, Hydrogen

7757-93-9 7758-23-8, MonoCalcium peroxide, biological studies 10031-30-8, MonoCalcium phosphate monohydrate 7778-18-9 phosphate 10035-04-8, Calcium chloride dihydrate 10043-52-4, Calcium chloride 10124-31-9, Ammonium phosphate 16984-48-8, (CaCl2), biological studies 31745-32-1 Fluoride, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-tartar dental compns. contg. calcium phosphate and fluoride) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT RE

- (1) Masters, J; US 5855871 A 1999 HCAPLUS
- (2) Mordarski, T; US 5843406 A 1998 HCAPLUS
- ANSWER 7 OF 34 HCAPLUS COPYRIGHT 2002 ACS L81
- 2000:589884 HCAPLUS AN
- DN 133:182799
- ΤI Dual component antiplaque and tooth

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whitening composition
     Prencipe, Michael; Wong, Mike; Drago, Vincent O.; Bentley, Marcus; Hassan,
IN
     Mahmoud; Dixit, Nagaraj S.
PΑ
     Colgate-Palmolive Company, USA
     U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 166,025.
SO
     CODEN: USXXAM
DT
     Patent .
     English
LA
     ICM A61K007-16
ΙÇ
         A61K007-18; A61K007-20
     ICS
NCL
     424053000
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
                                         APPLICATION NO.
                      KIND DATE
                                                            DATE
     PATENT NO.
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                                           US 1999-231042 19990113
                            20000822
PΙ
     US 6106812
                      Α
                            20000829
                                           US 1998-166025
                                                            19981005
     US 6110446
                      Α
                            20000413
                                           WO 1999-US22875 19991004
     WO 2000019971
                     A1
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             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ, TM
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             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                                            19991004
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                      Α1
     BR 9915342
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                                                            19991004
                       Α
                            20010801
                                           EP 1999-953018
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     EP 1119342
                       A1
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             IE, SI, LT, LV, FI, RO
                            20020820
                                           JP 2000-573333
                                                            19991004
     JP 2002526394
                      Т2
PRAI US 1998-166025
                       A2
                            19981005
                            19990113
     US 1999-231042
                       Α
     WO 1999-US22875
                      W
                            19991004
     A dual component tooth whitening
AB
     compn. is disclosed, which compn. contains a peroxide whitening
     and a second ingredient incompatible with the peroxide compd., the second
     ingredient and the peroxide compd. each being incorporated in sep
     . dentifrice components which are phys. sepd
     . until dispensed for use, the components retaining
     their original phys. state when in contact, the first component
     being a compn. contg. a peroxide whitening compd. in a vehicle
     thickened with a combination of a particulated water insol. inorg. compd.
     and an org. thickener other than an alkylene oxide polymer, and the second
     component contg. the ingredient incompatible with the peroxide. A
     paste contg. glycerin 12, CM-cellulose 0.55, carrageenan 0.24,
    NaF 0.243, Mn gluconate 0.05, saccharin 0.45, sorbitol 22.6,
     gantrez liq. 7.69, NaOH 2, abrasive silica 31, flavor
     1.9, SLS 2, tetrasodium pyrophosphate 1, sodium tripolyphosphate 7, TiO2
     1, and water q.s. 100 %, and a gel contg. glycerin 40, carbopol
     974P 2, xanthan gum 0.4, H2O2 5.71, NaF 0.243,
     saccharin 0.25, polyethylene glycol 10, laponite 0.1, flavor 0.3,
     tetrasodium pyrophosphate 0.1, 1 % FD & C blue #1 sol. 1.05, and water
     q.s. to 100 % were prepd., and combined at 1:1 to examine their
     tooth-whitening effect by using bovine teeth
     stained with tea and coffee.
     tooth whitening peroxide sodium phosphate
ST
     Vinyl compounds, biological studies
IΤ
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (carboxy-contg., polymers, thickener; tooth-whitening
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dual compns. consisting of peroxide-contg. compns. and peroxide
        incompatible active ingredients-contg. compns.)
IT
     Antibacterial agents
        (nonionic; tooth-whitening dual compns.
        consisting of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
ΤТ
     Gums and Mucilages
        (thickener; tooth-whitening dual compns.
        consisting of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
     Polymers, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (thickener; tooth-whitening dual compns.
        consisting of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
     Dentifrices
IT
        (tooth-whitening dual compns. consisting
        of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
                              53320-86-8, Laponite
TT
     11138-66-2, Xanthan gum
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (thickener; tooth-whitening dual compns.
        consisting of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
ŦΨ
     3380-34-5, Triclosan
                            6485-39-8, Manganese gluconate 7631-86-9,
     Silica, biological studies 7722-84-1, Hydrogen
                                    7722-88-5, Tetrasodium
     Peroxide, biological studies
                     7758-29-4, Sodium tripolyphosphate
                                                           14915-07-2, Peroxide
     pyrophosphate
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth-whitening dual compns. consisting
        of peroxide-contg. compns. and peroxide incompatible active
        ingredients-contg. compns.)
RE.CNT 37
              THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Barrow; US 5846570 1998 HCAPLUS
(2) Barrows; US 5372802 1994 HCAPLUS
(3) Bridges; US 5055209 1991 HCAPLUS
(4) Burgess; US 5776437 1998 HCAPLUS
(5) Burgess; US 5820852 1998 HCAPLUS
(6) Burgess; US 5849269 1998 HCAPLUS
(7) Campbell; US 5693314 1997 HCAPLUS
(8) Christina-Beck; US 5766574 1998 HCAPLUS
(9) Church; US 5279816 1994 HCAPLUS
(10) Gaffar; US 5648064 1997 HCAPLUS
(11) Glandorf; US 5820853 1998 HCAPLUS
(12) Glandorf; US 5820854 1998 HCAPLUS
(13) Hauschild; US 5424060 1995 HCAPLUS
(14) Hsu; US 5614174 1997 HCAPLUS
(15) Hsu; US 5690913 1997 HCAPLUS
(16) Masters; US 5601803 1997 HCAPLUS
(17) Michael; US 5885553 1999 HCAPLUS
(18) Miller; US 5756073 1998 HCAPLUS
(19) Mirajkar; US 5690911 1997 HCAPLUS
(20) Mirajkar; US 5800803 1998 HCAPLUS
(21) Mordarski; US 5843406 1998 HCAPLUS
(22) Murayama; US 5122365 1992 HCAPLUS
(23) Murayama; US 5401495 1995 HCAPLUS
(24) Pellico; US 5718886 1998 HCAPLUS
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(25) Prencipe; US 5256402 1993 HCAPLUS (26) Prencipe; US 5578293 1996 HCAPLUS

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(27) Prencipe; US 5698182 1997 HCAPLUS
(28) Prencipe; US 5730959 1998 HCAPLUS
(29) Santalucia; US 5683680 1997 HCAPLUS
(30) Sheehan; US 5885555 1999 HCAPLUS
(31) Sullivan; US 5785956 1998 HCAPLUS
(32) Toy; US 5571501 1996 HCAPLUS
(33) Viscio; US 5302375 1994 HCAPLUS
(34) White; US 5939052 1999 HCAPLUS
(35) Williams; US 5616313 1997 HCAPLUS
(36) Williams; US 5632972 1997 HCAPLUS
(37) Zhang; US 5853704 1998 HCAPLUS
     ANSWER 8 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
AN
     2000:240908 HCAPLUS
DN
     132:269867
TΙ
     Dual component antiplaque and tooth
     whitening composition containing a peroxide and an antibacterial
     Prencipe, Michael; Drago, Vincent O.; Wong, Mike; Self, Barry D.;
IN
     Williams, Malcolm; Afflitto, John; Bentley, Marcus; Hassan, Mahmoud;
     Dixit, Nagaraj S.
PΑ
     Colgate-Palmolive Company, USA
SO
     PCT Int. Appl., 39 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC
     ICM A61K007-16
     ICS A61K007-20
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
                                          APPLICATION NO. DATE
                      KIND DATE
     PATENT NO.
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                     A1 20000413
                                          WO 1999-US22875 19991004
PΙ
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             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
            MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
            SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
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     EP 1119342
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            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                                            19991004
                     Т2
                            20020820
                                           JP 2000-573333
     JP 2002526394
                            19981005
PRAI US 1998-166025
                      Α
     US 1999-231042
                      Α
                            19990113
                            19991004
     WO 1999-US22875
                      W
     A dual component tooth whitening
AB
     compn. is disclosed, which compn. contains a peroxide whitening
     and a second ingredient incompatible with the peroxide compd. such as a
     nonionic antibacterial agent, the second ingredient and the peroxide
     compd. each being incorporated in sep. dentifrice
     components which are phys. sepd. until dispensed
     for use, the components retaining their original phys. state
     when in contact, the first component being a compn. contg. a
     peroxide whitening compd. in a vehicle thickened with a
     combination of a particulated water insol. inorg. compd. such as for
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example a inorg. compd. such as fumed silica or Laponite and an org. thickener other than an alkylene oxide polymer such as for example a carboxyl vinyl polymer, and the second component contg. the ingredient incompatible with the peroxide. A dual component dentifrice compn. comprised xanthan gum 1.5, fumed silica 5.75, tetrasodium pyrophosphate 0.50, 35% hydrogen peroxide 5.71, and excipients q.s. 100% in one component and sodium fluoride 0.486, manganese gluconate 0.5, triclosan 0.600, and excipients q.s. 100% in the second component. Antiplaque activity of the compn. was studied. antiplaque tooth whitening peroxide antibacterial ST agent TΨ Dentifrices (antiplaque; dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) Vinyl compounds, biological studies ΙT RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (carboxy-contg., polymers; dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) TT Antibacterial agents Thickening agents (dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) ΙT Peroxides, biological studies Polymers, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) ΙT 7631-86-9, Fumed silica, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (colloidal; dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) 6485-39-8, Manganese gluconate 7681-49-4, TT 3380-34-5, Triclosan Sodium fluoride, biological studies 7722-88-5, 7758-29-4, Sodium tripolyphosphate Tetrasodium pyrophosphate 53320-86-8, Laponite 11138-66-2, Xanthan gum RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (dual component antiplaque and tooth whitening compn. contg. peroxide and antibacterial agent) THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT RE (1) Abdul, G; US 5648064 A 1997 HCAPLUS (2) Colgate Palmolive Co; GB 2117240 A 1983 HCAPLUS (3) Colgate Palmolive Co; WO 9721419 A 1997 HCAPLUS (4) Colgate Palmolive Co; WO 9917734 A 1999 HCAPLUS (5) Hans, S; EP 0202359 A 1986 HCAPLUS (6) Procter & Gamble; WO 9822079 A 1998 HCAPLUS ANSWER 9 OF 34 HCAPLUS COPYRIGHT 2002 ACS L81 2000:120822 HCAPLUS ΑN 132:170881 DN Tooth bleaching compositions containing peroxide and ΤI color indicators INShama, Prama AdDent Inc., USA PA Jpn. Kokai Tokkyo Koho, 7 pp. SO

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CODEN: JKXXAF
DΤ
     Patent
LA
     Japanese
IC
     ICM A61K007-16
CC
     62-7 (Essential Oils and Cosmetics)
     Section cross-reference(s): 63
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                                                            DATE
     ______
     JP 2000053548
                      A2
                            20000222
                                           JP 1999-206118
                                                            19990721
PΙ
                          20000719
                                           EP 1999-114548
                                                            19990723
     EP 1020178
                      A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI US 1998-121040
                            19980723
                      Α
     This invention relates to a safe bleaching prepn. for
     teeth. The bleaching prepn. comprises two
     components in sep. containers, i.e. (1) a peroxide gel
     contg. hydrogen peroxide soln. and fumed
     silica; and (2) an activating gel contg. gelation agents,
     catalysts, buffering agents, redox color indicators, and
     secondary dyes. The two compns. are mixed in a
     dispenser just prior to application. A component A
     contained H2O2 10-35 % and noncryst. fumed silica
     20-22 % and a component B contained distd. water 75-90,
     noncryst. fumed silica 4.75-25, Mn citrate 4.75-15,
     triethanolamine 0.2-5, Na benzoate 0.2-5, Guinea green B 0.1-1, and
     Pylaklor acid red LX 6514 0.1-5 %.
     tooth bleach peroxide color indicator gel
ST
     Alcohols, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (amino, as buffers; tooth bleaching compns. contg.
        peroxide and gelation agents and color indicators)
     Bleaching agents
IT
       Dentifrices
     Dyes
     Redox indicators
        (tooth bleaching compns. contg. peroxide and
        gelation agents and color indicators)
     7631-86-9, Fumed silica, biological studies
TΤ
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (colloidal; tooth bleaching compns. contg. peroxide
        and gelation agents and color indicators)
     61-73-4, Basic blue 9
                             77-09-8, Phenolphthalein
                                                        915-67-3
IT
                     6359-90-6
                                  6359-98-4
                                             6625-46-3 7722-84-1,
     Guinea green B
     Hydrogen peroxide, biological studies
                                             8004-87-3, C.I.
     Basic Violet 1 10024-66-5, Manganese citrate
                                                      21668-14-4
                                                                   39457-35-7,
                  259147-97-2, Pylaklor Acid Red LX 6514
                                                           259147-99-4,
     Basic blue
                             259148-12-4, Pylaklor Peacock Blue
     Pylaklor Yellow S 184
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth bleaching compns. contg. peroxide and
        gelation agents and color indicators)
    ANSWER 10 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     1999:613616 HCAPLUS
AN
DN
     131:233417
     Toothpastes for remineralization of teeth
TI
     Barrow, Stephen Roy; Lee, Jae; Williams, David Robert; Ziemkiewicz,
IN
     Alexander George
     Unilever N.V., Neth.; Unilever PLC
PΑ
SO
     PCT Int. Appl., 31 pp.
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CODEN: PIXXD2
DT
     Patent
LA
     English
     ICM A61K007-16
IC
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
                         KIND DATE
                                                 APPLICATION NO. DATE
     PATENT NO.
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                        A1 19990923 WO 1999-EP1301 19990225
ΡI
     WO 9947108
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               CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        A 20000919
                                                 US 1998-217094
                                                                      19981221
     US 6120754
                                                 AU 1999-33278
                          A1
                                19991011
                                                                     19990225
     AU 9933278
     AU 730851
                          В2
                                20010315
                         Α
     BR 9908701
                                20001121
                                                 BR 1999-8701
                                                                     19990225
     EP 1061892
                         A1
                                20001227
                                                 EP 1999-914460
                                                                     19990225
          R: DE, ES, FR, GB, IT
     JP 2002506798 T2 20020305
                                                 JP 2000-536348
                                                                     19990225
                                20000910
                                                 ZA 1999-1933
                                                                     19990310
     ZA 9901933
                         Α
     US 6214321
                                                 US 2000-538571
                         B1 20010410
                                                                     20000329
                        P 19980311
PRAI US 1998-77627P
     US 1998-217094 A3
WO 1999-EP1301 W
                                19981221
                                19990225
     WO 1999-EP1301
     An oral product and method is provided for remineralizing teeth. The
AB
     product includes a first compn. contg. a water sol. calcium phosphate salt
     or monolithic combination of calcium and phosphate salts in a carrier with
     the first compn. having a pH less than 7, and a second compn. contg. an
     alk. material and a fluoride ion source in a carrier to achieve a pH
     greater than 7.5. The first and second compns. are sepd. from
     one another prior to use. When combined upon application to teeth, the
     first and second compns. generate hydroxyapatite depositing same on dental
     enamel.
     dentifrice teeth remineralization calcium phosphate
ST
     Dentifrices
IT
     Tooth mineralization
         (toothpastes for remineralization of teeth)
     Acids, biological studies
ΙT
     Carboxylic acids, biological studies
     RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
     BIOL (Biological study); USES (Uses)
         (toothpastes for remineralization of teeth)
     7757-93-9, Calcium phosphate (1:1) 16984-48-8, Fluoride, biological
IT
     studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
         (toothpastes for remineralization of teeth)
     62-54-4, Calcium acetate 144-55-8, Sodium bicarbonate, biological
IT
                 298-14-6, Potassium bicarbonate 471-34-1, Calcium carbonate,
     biological studies 497-19-8, Sodium carbonate, biological studies
     584-08-7, Potassium carbonate 1305-78-8, Calcium oxide, biological
     studies 1310-58-3, Potassium hydroxide, biological studies 1310-73-2, Sodium hydroxide, biological studies 3380-34-5, Triclosan 7440-66-6D,
     Zinc, salts, biological studies
                                            7632-05-5, Sodium phosphate
     7722-84-1, Hydrogen peroxide, biological
                                                 10043-52-4, Calcium chloride,
                 7778-18-9, Calcium sulfate
                              10124-31-9, Ammonium phosphate 31745-32-1, Ammonium
     biological studies
     sodium phosphate
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RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses) (toothpastes for remineralization of teeth) THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT RE (1) American Dental Ass; WO 9620693 A 1996 HCAPLUS (2) Barrow, S; US 5372802 A 1994 HCAPLUS (3) Unilever NV; EP 0520545 A 1992 HCAPLUS (4) Unilever NV; EP 0559262 A 1993 HCAPLUS (5) Usen, N; US 5605675 A 1997 HCAPLUS (6) Warner-Lambert Pharmaceutical Company; GB 1090340 A 1965 (7) Williams, D; US 5372803 A 1994 HCAPLUS (8) Winston, A; US 5603922 A 1997 HCAPLUS L81 ANSWER 11 OF 34 HCAPLUS COPYRIGHT 2002 ACS 1999:316510 HCAPLUS AN DN 130:342795 Method for whitening teeth TIRyles, Christine Watson; Barrow, Stephen Roy; Williams, David Robert IN ·Chesebrough-Pond's USA Co., USA PA U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 783,972, abandoned. SO CODEN: USXXAM DT Patent LA English ICM A61K007-16 IC ICS A61K007-20; A61K033-40 NCL 424053000 CC 62-7 (Essential Oils and Cosmetics) FAN.CNT 2 KIND DATE APPLICATION NO. DATE PATENT NO. -----_____ ·--------US 1997-979645 19971126 Α 19990511 PΙ US 5902568 19980723 WO 1997-EP7297 19971223 WO 9831331 A1 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG AU 1998-57641 19971223 AU 9857641 19980807 A1 19991027 EP 1997-953924 19971223 EP 951271 Α1 R: DE, FR, GB, IT 20000321 BR 1997-14499 19971223 BR 9714499 Α 20000426 CN 1997-182040 19971223 CN 1251518 A 19990709 ZA 1998-171 19980109 A ZA 9800171 PRAI US 1997-783972 B2 19970115 US 1997-979645 Α 19971126 WO 1997-EP7297 W 19971223 A method for whitening teeth is provided which AB involves applying to the teeth a mixt. of a peroxide and a bicarbonate salt. Advantageously, the peroxide and bicarbonate salt are stored as active ingredients in sep. resp. compns. of a dispensing container. Preferably the dispensing container is a pump in the form of an upper and lower body telescopically engageable one with another, the upper body including at least two hollow and sep. parallel cylinders each contg. one of the compns. These compns. may then be dispensed through relative compression of the pistons within the cylinders. A paste compn. comprises Polyol II (sorbitol and other sugars) 33.60, Syloid 63XX 30.00, NaHCO3 10.00, PEG 32 5.00, Sylox 15x 2.00, flavor 1.00, Na lauryl sulfate 2.98, SD Alc. 38B 2.84, cellulose gum 0.80, Ma saccharin 0.54, menthol 0.50,

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NaF 0.44, Ti dioxide 0.30 wt.% and deionized water balance.
ST
     tooth whitening compn
IT
     Dentifrices
        (tooth whitening compn.)
     Peroxides, biological studies
TΤ
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth whitening compn.)
                                                 144-55-8, Sodium bicarbonate,
TΤ
     71-52-3, Bicarbonate, biological studies
     biological studies 7722-84-1, Hydrogen
     peroxide, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth whitening compn.)
              THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
        37
RE
(1) Anon; WO 88/06879 1988 HCAPLUS
(2) Anon; EP 0388185 1990
(3) Anon; GB 2290234 1995 HCAPLUS
(4) Anon; WO 95/09603 1995 HCAPLUS
(5) Anon; WO 96/28133 1996 HCAPLUS
(6) Anon; WO 97/11676 1997 HCAPLUS
(7) Anon; WO 97/21419 1997 HCAPLUS
(8) Anon; Colgate Baking Soda & Peroxide Carton 1996
(9) Benedict; US 3988433 1976 HCAPLUS
(10) Bergman; US 3952920 1976
(11) Bergman; US 4046288 1977
(12) Bergman; US 4240566 1980
(13) Czech; US 4301948 1981
(14) Delaney; US 3935305 1976 HCAPLUS
(15) Devaney; US 4121739 1978
(16) Fischer; US 5098303 1992
(17) Haynie; US 5240415 1993
(18) Januszewski; US 3935304 1976 HCAPLUS
(19) Libin; US 4976955 1990 HCAPLUS
(20) Maillard; US 2826339 1958
(21) Murayama; US 5122365 1992 HCAPLUS
(22) Murayama; US 5401495 1995 HCAPLUS
(23) Nathoo; US 5171564 1992 HCAPLUS
(24) Nielsen; US 3166221 1965
(25) Pellico; US 5631000 1997 HCAPLUS
(26) Pettengill; US 315496 1991
(27) Pettengill; US 5020694 1991
(28) Pettengill; US 5038963 1991
(29) Prencipe; US 5256402 1993 HCAPLUS
(30) Schaeffer; US 4528180 1985 HCAPLUS
(31) Schaeffer; US 4687663 1987 HCAPLUS
(32) Schaeffer; US 4849213 1989 HCAPLUS
(33) Schow; US 5290566 1994 HCAPLUS
(34) Thaler; US 5208010 1993 HCAPLUS
(35) Wilkinson; US 4742940 1988
(36) Winston; US 4721614 1988 HCAPLUS
(37) Yarborough; US 5645428 1997 HCAPLUS
L81
    ANSWER 12 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
     1999:282053 HCAPLUS
DN
     130:316667
TI
     Two-component dental bleaching system and method comprising peroxides
ΙN
     Pellico, Michael A.
PA
     USA
     PCT Int. Appl., 22 pp.
SO
     CODEN: PIXXD2
DT
     Patent
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LA
     English
TC
     ICM A61K006-00
     ICS A61K007-00; A61K007-16
CC
     63-7 (Pharmaceuticals)
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                      . APPLICATION NO.
                                                            DATE
                                           _____
     _____
                      _ - - -
                            19990429
                                           WO 1998-US21882 19981016
ΡI
     WO 9920226
                      A1
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
             NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,
             UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 5928628
                            19990727
                                           US 1997-957008
                                                            19971023
                      Α
                                           AU 1999-10935
     AU 9910935
                       Α1
                            19990510
                                                            19981016
PRAI US 1997-957008
                            19971023
     WO 1998-US21882
                            19981016
     A two-component dental bleaching system is provided wherein the components
AB
     are adapted to be admixed and applied to the teeth from a dental bleaching
           One component comprises a dental peroxide gel having a pH from
     about 4 to about 7 and the other component comprises an orally compatible
     alk. gel having a pH from about 9 to about 13. The admixing of the
     components provides a dental bleaching gel having a pH from about 8,5 to
     about 11 to thereby increase the rate of release of active oxygen and
     accelerate the bleaching action. A two-component dental gel contained
     water 18.25, glycerin 10.00, propylene glycol
     11.00, xylitol 5.00, 50% hydrogen peroxide 30.00,
     Poloxamer 407 25.00, eugenol 0.25, peppermint flavor 0.50, in the peroxide
     gel and water 53.50, glycerin 17.00, propylene
     glycol 10.00, Poloxamer-407 18.00, peppermint flavor 0.70, dyes
     0.30, and potassium hydroxide 0.5% in the alk. gel.
     dental bleaching gel peroxide polymer
ST
     Alcohols, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (aliph., polyhydric; two-component dental bleaching system and method
        comprising peroxides)
ΙT
     Alcohols, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (amino; two-component dental bleaching system and method comprising
       peroxides)
IT
     Dentifrices
        (gels; two-component dental bleaching system and method comprising
        peroxides)
IT
     Bleaching agents
     Gelation agents
     Tooth
        (two-component dental bleaching system and method comprising peroxides)
     Alkali metal hydroxides
     Peroxides, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (two-component dental bleaching system and method comprising peroxides)
     56-81-5, Glycerin, biological studies 57-55-6,
     Propylene glycol, biological studies 1310-58-3
     , Potassium hydroxide, biological studies
                                               1336-21-6,
     Ammonium hydroxide 7722-84-1, Hydrogen
                                   106392-12-5, Poloxamer 407
     peroxide, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
```

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(Uses)
        (two-component dental bleaching system and method comprising peroxides)
             THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RΕ
(1) Williams; US 5186926 A 1993 HCAPLUS
   ANSWER 13 OF 34 HCAPLUS COPYRIGHT 2002 ACS
    1999:244550 HCAPLUS
ΑN
DN
    130:286837
    Method to enhance the antibacterial efficacy of antibacterial
TI
    dentifrices
    Nabi, Nuran; Afflitto, John; Williams, Malcolm; Herles, Susan;
IN
    Sreenivasan, Prem
    Colgate-Palmolive Company, USA
PΑ
     PCT Int. Appl., 24 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LA
    English
     ICM A61K007-20
IC
     ICS A61K007-16
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 1
    PATENT NO.
                                          APPLICATION NO. DATE
                     KIND DATE
                                          _____
     _____
                     ____
                                     WO 1998-US19388 19980917
                     A1 19990415
    WO 9917734
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                        US 1997-943821
                                                           19971006
                           19991102
     US 5976508
                     Α
                         `19990427
                                          AU 1998-94898
                                                           19980917
    AU 9894898
                      A1
                           19971006
PRAI US 1997-943821
                           19980917
    WO 1998-US19388
    A method for enhancing the antiplaque efficacy of an antibacterial
AB
    dentifrice, comprises (1) prepg. a multicomponent
    dentifrice compn. having a first dentifrice
     component contg. an antibacterial agent and manganese coordination
     complex compd., and a second dentifrice component
     contg. a peroxide compd.; (2) maintaining the first and second
     dentifrice components sep. prior to use; and
     (3) combining the dentifrice components and applying
     the two components to the teeth and periodontium,
     whereby the dentifrice provides enhanced inhibition of plaque
     growth. A dentifrice comprised (1) component A contg.
    glycerin 20, Zeodent 115 20, sorbitol (70%) 15, Sylodent-15 1.5,
     titania 0.5, cellulose gum 0.4, Na CMC 0.8, flavor oils 1, Na saccharin
     0.6, triclosan 0.6, Gantrez S-97 (13.6 % soln.) 15, NaOH (50 %
     soln.) 2.4, Na lauryl sulfate 1.5, Mn gluconate 0.1, NaF 0.486,
     and water 20.114 % and (2) component B contg. glycerin
     20, Zeodent 115 25, PEG 5, sorbitol (70 %) 20, tetrasodium pyrophosphate
     4, sodium acid pyrophosphate 4, cellulose gum 0.4, flavor oils 0.8, Na
     saccharin 0.5, K stannate 0.5, Na lauryl sulfate 0.8, H2O2 4,
     BHT 0.03, and water 14.97 %.
     dentifrice antibacterial manganese complex peroxide; triclosan
ST
     manganese gluconate peroxide antiplaque dentifrice
     Antibacterial agents
ΙT
       Dentifrices
```

(antiplaque dentifrices contg. antibacterial agent and manganese complex and peroxide in sep. compartments

```
ΙT
    Tooth
        (plaque; antiplaque dentifrices contq. antibacterial agent
        and manganese complex and peroxide in sep.
        compartments)
IT
                           6485-39-8, Manganese gluconate 7722-84-1,
     3380-34-5, Triclosan
    Hydrogen peroxide, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (antiplaque dentifrices contg. antibacterial agent and
        manganese complex and peroxide in sep. compartments
RE.CNT
             THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Colgate-Palmolive; WO 9702805 A 1997 HCAPLUS
(2) Colgate-Palmolive; WO 9721419 A 1997 HCAPLUS
(3) Gaffar, A; US 5178851 A 1993 HCAPLUS
(4) Hsu, D; US 5614174 A 1997 HCAPLUS
(5) Hunter, M; US 4988500 A 1991 HCAPLUS
(6) Warner-Lambert; WO 9713495 A 1997 HCAPLUS
L81 ANSWER 14 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1999:139736 HCAPLUS
DN
    130:187047
TΙ
    Two-component mouthwash composition
    Pastura, Amerigo; Walther-Stangrecki, Claudia; Casa, Paco; Pujol, Miracle
IN
    Henkel Kommanditgesellschaft auf Aktien, Germany
PA
SO
    Eur. Pat. Appl., 8 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    German
    ICM A61K007-20
IC
CC
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 1
                     A1 19990224 EP 1998-114060
                     KIND DATE
    PATENT NO.
                    ----
    ______
    EP 897714
PI
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                    A1 19990225
                                          DE 1997-19735779 19970818
    DE 19735779
PRAI DE 1997-19735779
                           19970818
    A stable peroxide-contg. mouthwash compn. with relatively low peroxide
    content (0.005-3 wt.%) consists of 2 components, packaged
    sep. to be mixed at the time of use. The 1st
    component comprises an aq. soln. of H2O2 and an acid to
    establish a pH of <4.5. The 2nd component is an aq. or aq.-alc.
    soln. of surfactants, flavorings, and/or oral hygiene agents and 1-10 wt.%
    of a buffering salt of a nonvolatile acid to establish a pH >8. After
    mixing the components in a vol. ratio of .apprx.1:1, the
    pH of the mouthwash is .gtoreq.7. The mouthwash is effective for cleaning
    and brightening discolored teeth. Thus, a mouthwash
    was prepd. by combining equal parts of (1) a soln. contg. 30% H2O2
    0.67, citric acid monohydrate 0.00083, and distd. water to 100 wt.% (pH
    4.2) and (2) a soln. contq. Plantaren 1200 UP 0.1, Cremophor Recombinant
    Human 60 0.2, flavoring 0.1, Na saccharin 0.03, NaF 0.045,
    sorbitol 1.8, EtOH 10.0, dye 0.001, Na citrate 5.0, and water to 100 wt.%
    mouthwash peroxide acid; stain removal tooth mouthwash
ST
    peroxide
ΙT
    Tooth
        (bleaching agent for; two-component
       mouthwash compn. contg. hydrogen peroxide)
IT
    Polyphosphates
```

```
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (buffers; two-component mouthwash compn. contg.
       hydrogen peroxide)
IT
    Bleaching agents
        (for teeth; two-component mouthwash
        compn. contg. hydrogen peroxide)
     Carboxylic acids, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (hydroxy, buffers; two-component mouthwash compn.
        contg. hydrogen peroxide)
TT
    Carboxylic acids, biological studies
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (hydroxy, polycarboxylic, salts, as buffers; two-
        component mouthwash compn. contg. hydrogen
       peroxide)
IT
    Salts, biological studies
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (of nonvolatile acids; two-component mouthwash
        compn. contg. hydrogen peroxide)
    Organic compounds, biological studies
ΙT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (phosphorus-contg., phosphonates, as buffers; two-
        component mouthwash compn. contg. hydrogen
       peroxide)
    Amino acids, biological studies
IT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (polycarboxylic, salts, as buffers; two-component
       mouthwash compn. contg. hydrogen peroxide)
ΙT
    Buffers
    Mouthwashes
    Surfactants
        (two-component mouthwash compn. contg.
       hydrogen peroxide)
    Acids, biological studies
IT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (two-component mouthwash compn. contg.
       hydrogen peroxide)
     68-04-2, Trisodium citrate
IT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (buffer; two-component mouthwash compn. contg.
       hydrogen peroxide)
    77-92-9, Citric acid, biological studies 7722-84-1,
TΤ
    Hydrogen peroxide, biological studies
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (two-component mouthwash compn. contg.
       hydrogen peroxide)
              THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 3
RF.
(1) Colgate-Palmolive Company; WO 97/02805 A1 1997 HCAPLUS
(2) Gentile; US 5392947 A 1995
(3) Schaeffler, H; EP 0202359 A2 1986 HCAPLUS
L81 ANSWER 15 OF 34 HCAPLUS COPYRIGHT 2002 ACS
    1998:788684 HCAPLUS
ΑN
```

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DN
    130:43336
    Stabilized hydrogen peroxide gel compositions
TΙ
IN
    Barrow, Stephen Roy; Urbaez, Jesus Antonio
    Chesebrough-Pond's USA Co., Division of Conopco, Inc., USA
PΑ
SO
    U.S., 4 pp.
     CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K033-40
IC
NCL
    424616000
CC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 62
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
    US 5846570
                            19981208
                                           US 1997-884047
                                                             19970627
ΡI
                      Α
    An oral compn., particularly a gel, is provided which includes at least
AΒ
     2%, preferably .gtoreq.6% of hydrogen peroxide in a
    carrier stabilized by a triphenylmethane dye. Particularly useful as the
    dye are FD&C Blue 1 and FD&C Green 3 at levels ranging from 0.006 to 1 %.
    Further stability can also be achieved through use of a chelating acid,
    particularly phosphoric acid. The formulation of was utilized either
    sep. or in combination with a bicarbonate compn. each of the
    compns. being held in a sep. compartment of a
    dual compartment dispenser. A peroxide gel
    component contained Pluronic F127 20.0, glycerin 40.0,
    H2O2 (35% food grade) 17.00, Me salicylate 0.50, FD&C Blue-1 0.01,
    and phosphoric acid (95%) 0.30% by wt., and deionized water balance. A
    bicarbonate paste component was composed of Polyol II (sorbitol
    and other sugars) 48.71, Syloid 63XX (abrasive silica) 15.00,
    NaHCO3 10.00, PEG-32 5.00, Sylox 15x (thickening silica) 6.00,
    SLS 2.98, SD alc. 38B 2.85, cellulose gum 0.80, menthol 0.50, sodium
     saccharin 0.50, NaF 0.44, and TiO2 0.23% by wt., and deionized
    water balance.
    stabilized hydrogen peroxide gel oral dye
ST
IT
    Dentifrices
     Drug delivery systems
        (gels, oral; stabilized hydrogen peroxide gel
        compns.)
IT
    Dyes
     Humectants
     Stabilizing agents
        (stabilized hydrogen peroxide gel compns.)
     50-70-4, Sorbitol, biological studies 56-81-5, Glycerol
IT
     , biological studies
                            2353-45-9, FD&C Green 3
                                                       3844-45-9, FD&C Blue 1
     7664-38-2, Phosphoric acid, biological studies
                                                      9003-11-6
                                                                  106392-12-5,
   . Pluronic F127
     RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
     THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (stabilized hydrogen peroxide gel compns.)
     7722-84-1, Hydrogen peroxide, biological
IT
     studies
     RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (stabilized hydrogen peroxide gel compns.)
              THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 8
RE
(1) Ng; US 4788052 1988 HCAPLUS
(2) Ng; US 4839156 1989 HCAPLUS
(3) Ng; US 4839157 1989 HCAPLUS
(4) Sompayrac; US 4226851 1980 HCAPLUS
(5) Williams; US 5059417 1991 HCAPLUS
(6) Williams; US 5217710 1993 HCAPLUS
```

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(7) Woods; US 5180517 1993 HCAPLUS
(8) Woods; US 5326494 1994 HCAPLUS
L81 ANSWER 16 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1998:629711 HCAPLUS
DN
    129:280785
ΤI
    Dentifrice and dispenser therefor
    Williams, David Robert; Barrow, Stephen Roy
IN
    Chesebrough-Pond's USA Co., USA
PA
SO
    U.S., 6 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K007-16
IC
     ICS A61K007-18; A61K007-20
NCL
    424057000
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
                     KIND DATE
                                          APPLICATION NO. DATE
    PATENT NO.
                     _____
    _____
                                          -----
    US 5814303 A 19980929
US 5855875 A 19990105
                                          US 1997-932412
                                                           19970917
PT
                    A
                                          US 1998-119619
                                                           19980720
PRAI US 1997-932412
                           19970917
    A dentifrice is packaged in a telescopically arranged
    multi-cavity dispensing container having
     .gtoreq.2 cylinders in an upper body thereof. Peroxide and baking soda
  are placed as active ingredients in sep. resp. semi-solid
    streams, each stream being in a sep. cylinder. Uniform
    dispensing of each stream to deliver relatively equiv. ribbon
    length of each stream is accomplished by incorporating a polyphosphate
    salt to adjust viscosity. Preferred salts are tripolyphosphates,
    hexametaphosphates, and pyrophosphates. Thus, a bicarbonate paste
    component contained polyols (sorbitol and other sugars) 48.70,
    Syloid 63XX (abrasive silica) 15.00, NaHCO3 10.00, PEG-32 5.00,
    Sylox 15x (thickening silica) 4.60, flavoring 1.00, TSPP 0.50,
    SDS 2.98, SD alc. 38B 2.85, cellulose gum 0.80, Na saccharin 4.00,
    NaF 0.44, TiO2 0.30, and deionized H2O to 100 wt.%. The
    bicarbonate paste in one cylinder was used in combination with a peroxide
    gel component contg. Pluronic F127 20.00, glycerin
    20.00, PEG-600 10.00, PEG-1450 10.00,35% H2O2 soln. 4.285, FD&C
    Blue 0.005, 85% H3PO4 0.15, and deionized H2O to 100 wt.%. The
    dispenser comprises 2 sep., hollow, parallel cylinders,
    each contg. a piston to force the flowable contents toward an outlet
    channel; the materials exiting the 2 outlets flow toward each other to
    form a single, banded, unmixed stream.
    dentifrice dispenser bicarbonate peroxide
ST
    polyphosphate; viscosity dentifrice polyphosphate
ΙT
    Cylinders
      Dentifrices
       Dispensing apparatus
    Extrusion apparatus
    Pistons
        (dentifrice and dispenser therefor)
TΤ
    Diphosphates
    Peroxides, biological studies
    Polyphosphates
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dentifrice and dispenser therefor)
IT
     Polyphosphates
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (hexaphosphates, hexametaphosphates; dentifrice and
```

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dispenser therefor)
IT
     Polyphosphoric acids
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (sodium salts; dentifrice and dispenser therefor)
     Polyphosphates
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (triphosphates; dentifrice and dispenser therefor)
     124-43-6 144-55-8, Sodium bicarbonate, biological studies
ΙT
     471-34-1, Calcium carbonate, biological studies
                                                        563-69-9D, Percarbonic
                                                  7320-34-5, Tetrapotassium
                  1305-79-9, Calcium peroxide
     acid, salts
     pyrophosphate 7722-84-1, Hydrogen peroxide,
                         7722-88-5, Tetrasodium pyrophosphate
                                                                  7758-16-9,
     biological studies
                              13598-52-2D, Phosphoroperoxoic acid, salts
     Disodium pyrophosphate
     14691-84-0, Dipotassium pyrophosphate
                                              149674-18-OD, Peroxysilicic acid
     (H4SiO3(O2)), salts
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dentifrice and dispenser therefor)
    ANSWER 17 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     1998:509076 HCAPLUS
ΑN
     129:126939
DN
     A method for whitening teeth
ΤI
     Ryles, Christine Watson; Barrow, Stephen Roy; Williams, David Robert
ΙN
     Unilever N.V., Neth.; Unilever PLC
PA
SO
     PCT Int. Appl., 32 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
     ICM A61K007-16
IC
     ICS A61K007-20
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO.
                                                             DATE
                      _ -- -
                            _____
                                                            19971223
     WO 9831331
                                            WO 1997-EP7297
                            19980723
PΙ
                      A1
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
             FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
                                            US 1997-979645
     US 5902568
                            19990511
                                                             19971126
                      Α
                             19980807
                                            AU 1998-57641
                                                             19971223
     AU 9857641
                       A1
                       A1
                             19991027
                                            EP 1997-953924
                                                             19971223
     EP 951271
         R:
            DE, FR, GB, IT
                                            BR 1997-14499
                                                             19971223
                             20000321
     BR 9714499
                      Α
PRAI US 1997-783972
                       Α
                             19970115
     US 1997-979645
                       Α
                             19971126
                       W
                             19971223
     WO 1997-EP7297
     A method for whitening teeth is provided which
AB
     involves applying to the teeth a mixt. of a peroxide
     and a bicarbonate salt. Advantageously, the peroxide and bicarbonate salt
     are stored as active ingredients in sep. resp. compns. of a
     dispensing container. Preferably the dispensing
     container is a pump in the form of an upper and lower body telescopically
     engageable one with another, the upper body including at least two
     hollow and sep. parallel cylinders each contg. one of the
     compns. These compns. may then be dispensed through relative
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compression of the pistons within the cylinders.
ST
    tooth whitening peroxide bicarbonate dispenser
IT
    Dentifrices
        (tooth-whitening peroxide and bicarbonate
       combinations and dispensing containers contg. them
       sep.)
               144-55-8, Sodium bicarbonate, biological studies
    124-43-6
IT
    7722-84-1, Hydrogen peroxide, biological
    studies
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (tooth-whitening peroxide and bicarbonate
        combinations and dispensing containers contg. them
       sep.)
L81 ANSWER 18 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1998:414628 HCAPLUS
DN
    129:71975
TΙ
    Dual component tooth whitening
    dentifrice
    Christina-Beck, Lisa M.; Curtis, John P.; Greenfeder, Susan E.; Theiler,
ΙN
    Colgate Palmolive Company, USA
PΑ
SO
    U.S., 7 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K007-16
IC
    ICS A61K007-20; A61K031-375; A61K033-40
NCL
    424053000
    62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
    PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
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                                                           _____
                  A
                           19980616
                                          US 1996-746728 19961115
    US 5766574
PΙ
ΑB
    A dual component whitening
    dentifrice compn. comprises a first dentifrice
    component contg. a peroxide compd. such as urea
    peroxide and a second dentifrice component
    contg. an abrasive such as alumina or silica which is
    incompatible with the peroxide, the first and second dentifrice
    components being maintained sep. from the other until
    dispensed and combined for application to teeth
    requiring whitening. Thus, a compn. of the 1st
    component contained urea peroxide 6.60,
    clciumpyrophosphate 27.50, water 21.68, Pluronic F-127 17.0,
    glycerin 12.50, PEG-600 12.50, sodium acid pyrophosphate 2.00,
    citric acid 0.2, and disodium calcium EDTA 0.04%. A compn. of the 2nd
    component 15.0, glycerin 15.0, silica 15.0,
    lumina 20.0, water 20.75, PEG-600 3.0, Gantrez S-97 2.0, SLS 1.8,
    sodiummonofluorophosphate 1.52, CM-cellulose 0.8, sodium saccharin 0.6,
    TiO2 0.3 and flavor 2.4%. The above 2 compns. were mixed to
    give the desired effect.
    tooth whitening dentifrice peroxide;
ST
    abrasive dentifrice peroxide
ΙT
    Abrasives
      Dentifrices
        (dual component tooth whitening
       dentifrice)
TΤ
    Peroxides, biological studies
    Vitamins
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
    (Uses)
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(dual component tooth whitening
        dentifrice) .
     3380-34-5, Triclosan 7757-79-1, Potassium
IT
     nitrate, biological studies
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BUU (Biological use, unclassified); BIOL (Biological
     study); USES (Uses)
        (dual component tooth whitening
        dentifrice)
     50-81-7, Vitamin C, biological studies 124-43-6 1344-28-1,
ΙT
     Alumina, biological studies 6485-39-8, Manganese gluconate
     7631-86-9, Silica, biological studies 7722-84-1
     , Hydrogen peroxide, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dual component tooth whitening
        dentifrice)
L81 ANSWER 19 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
     1998:300803 HCAPLUS
DN
     129:8445
TΙ
     Dentifrices packaged in multi-cavity
     dispensers containing peroxide and baking soda in
     semisolid forms
     Williams, David Robert; Barrow, Stephen Roy; Ryles, Christine Watson
ΙN
     Unilever N. V., Neth.; Unilever PLC
PA
SO
     Eur. Pat. Appl., 10 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     English
     ICM A61K007-16
IC
     ICS B65D035-22
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
                     KIND DATE
                                           APPLICATION NO. DATE
     PATENT NO.
     -----
                           ____
                                     EP 1997-203353 19971029
     EP 839517 A2 19980506
PΤ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                    P 19961101
P 19961126
PRAI US 1996-29866P
     US 1996-32033P
                            19961126
AB
     A dentifrice is provided packaged in a telescopically arranged
     multi-cavity dispensing container having at
     least two cylinders in an upper body thereof. Peroxide
     and baking soda are placed as active ingredients in sep. resp.
     semi-solid streams, each stream being in sep. ones of the
     cylinders. Uniform dispensing of each stream to deliver
     relatively equiv. ribbon length of each stream by incorporating a
     synthetic linear anionic polycarboxylate or a polyphosphate to adjust
     viscosity. Preferred polycarboxylates are homopolymers of acrylic,
     methacrylic and maleic acid, most esp. a copolymer of vinyl Me ether and
     maleic acid or anhydride, and preferred polyphosphates are
     tripolyphosphates, hexametaphosphates, and pyrophosphates. A dentifrice
     comprised (1) a gel contg. sorbitol 40, glycerol 15, syloid 63XX
     15, NaHCO3 15, PEG-32 5, Syloid 15X 4.6, Na lauryl sulfate 2.5, SD alc. 38
     B 2.5, Na hexametaphosphate 2, Gantrez S-97 2, cellulose gum 0.8, Na
     saccharin 0.5, NaF 0.46, titania 0.3, and deionized water to 100
% and (2) a gel contg. Pluronic F127 25, glycerol 35,
     H202 (35 %) 10, tetrapotassium pyrophosphate 4, FD&C Blue 0.005,
     phosphoric acid (85 %) 0.1, and deionized water to 100 %.
     dentifrice peroxide bicarbonate polycarboxylate polyphosphate
ST
     container
ΙT
     Dentifrices
```

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(dentifrices packaged in multi-cavity
        dispenser contg. peroxide and baking soda in
        semisolid form)
ΙT
     Polyphosphoric acids
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (sodium salts; dentifrices packaged in multi-cavity
        dispenser contg. peroxide and baking soda in
        semisolid form)
ፐጥ
     Polyphosphates
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (triphosphates; dentifrices packaged in multi-cavity
        dispenser contg. peroxide and baking soda in
        semisolid form)
     124-43-6
              144-55-8, Sodium bicarbonate, biological studies
IΤ
     563-69-9, Carbonoperoxoic acid
                                    1305-79-9, Calcium peroxide
     7320-34-5, Tetrapotassium pyrophosphate
                                              7631-97-2, Sodium
     monofluorophosphate 7722-84-1, Hydrogen
                                   7722-88-5, Tetrasodium
    peroxide, biological studies
                    7758-16-9, Disodium pyrophosphate 13825-81-5,
     pyrophosphate
     Peroxydiphosphoric acid ([(HO)2P(O)]2O2) 14691-84-0, Dipotassium
                                               75537-01-8, Gantrez s97
     pyrophosphate 52229-50-2, Gantrez an139
     145039-50-5, Peroxysilicic acid (H2SiO2(O2))
                                                    207519-95-7,
     Gantrez AN 116
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dentifrices packaged in multi-cavity
        dispenser contg. peroxide and baking soda in
        semisolid form)
L81 ANSWER 20 OF 34 HCAPLUS COPYRIGHT 2002 ACS
     1998:123794 HCAPLUS
ΑN
DN
     128:196493
     Stabilized anhydrous tooth whitening gel containing carbamide
TΙ
     peroxide
     Pellico, Michael A.
IN
     Laclede Professional Products, Inc., USA
PA
     U.S., 5 pp., Cont.-in-part of U.S. 6,631,000.
SO
     CODEN: USXXAM
DT
     Patent
LA
     English
     ICM A61K007-16
IC
     ICS A61C005-00
NCL
    424053000
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
                                                            DATE
                      KIND DATE
                                          APPLICATION NO.
     PATENT NO.
     -----
                            19980217
                                           US 1996-772422
                                                            19961223
     US 5718886
                      Α
PΤ
                     Α
                                           US 1996-599364
                                                            19960311
     US 5631000
                            19970520
PRAI US 1996-599364
                            19960311
     Stabilized anhyd. dental whitening gel compns. are provided which resist
AB
     viscosity degrdn. during oral use. An illustrative anhyd. dental
     bleaching gel compn. embodying this feature comprises propylene
     glycol, polyethylene glycol, glycerin in an amt. not
     exceeding about 10 wt., neutralized carboxypolymethylene,
     hydroxypropyl cellulose, xanthan gum and
     carbamide peroxide. A tooth whitening gel contained
     propylene glycol 47.4, PEG-600 20.0, PEG-1000 10.0,
     glycerin 8.0, Carbopol-980 2.2, Klucel GFF 1.7, xanthan gum 0.1,
     flavor 0.2, sodium hydroxide 0.4, and
     carbamide peroxide 10.0 %.
```

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ST
     stability tooth whitening gel carbamide peroxide
IT
     Dentifrices
         (gels; stabilized anhyd. tooth whitening gel contg. carbamide
        peroxide)
IT
     Alcohols, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
         (polyhydric; stabilized anhyd. tooth whitening gel contg.
         carbamide peroxide)
IT
     Thickening agents
         (stabilized anhyd. tooth whitening gel contg. carbamide
        peroxide)
     Polyoxyalkylenes, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
         (stabilized anhyd. tooth whitening gel contg. carbamide
        peroxide)
     56-81-5, Glycerin, biological studies 57-55-6,
ΙT
     Propylene glycol, biological studies 124-43-6,
     Carbamide peroxide. 9004-64-2,
                                 9007-20-9, Carboxypolymethylene
     Hydroxypropylcellulose
     11138-66-2, Xanthan gum
                                 25322-68-3, Polyethylene glycol
                                                                        138757-67-2,
     Carbopol-980
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
         (stabilized anhyd. tooth whitening gel contg. carbamide
        peroxide)
     ANSWER 21 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     1998:1420 HCAPLUS
AN
DN
     128:66330
     Codispensing of physically segregated dentifrices at consistent
TΙ
     ratios
     Masters, James G.; Sullivan, Richard J.; Prencipe, Michael; Connan, A.
IN
     Patrick
     Colgate-Palmolive Company, USA
PA
     PCT Int. Appl., 26 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
     ICM B65D035-22
IC
     ICS A61K007-16
CC
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 1
                        KIND DATE
                                               APPLICATION NO.
                                                                   DATE
     PATENT NO.
                                               ______
     _____
                       A1 19971211
PI
     WO 9746462
                                               WO 1997-US8622 19970521
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
              PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
              ML, MR, NE, SN, TD, TG
                               19971211
                                                CA 1997-2254338
                                                                   19970521
     CA 2254338
                         AΑ
     AU 9735669
                         A1
                               19980105
                                                AU 1997-35669
                                                                   19970521
     AU 722898
                         B2
                               20000817
                                                EP 1997-932135
                                                                   19970521
     EP 918698
                         A1
                               19990602
     EP 918698
                         В1
                               20011107
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, LT,
              LV, FI, RO
     CN 1221384
                               19990630
                                                CN 1997-195267
                                                                   19970521
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20010919
     CN 1071248
                       В
                            19990810
                                           BR 1997-9290
                                                             19970521
     BR 9709290
                       Α
                       E
                            20011115
                                           AT 1997-932135
                                                             19970521
     AT 208327
     ES 2167757
                       Т3
                            20020516
                                           ES 1997-932135
                                                            19970521
                            19960606
PRAI US 1996-659734
                       Α
                       W
                            19970521
     WO 1997-US8622
    A method is disclosed for the coextrusion in controlled amts. of at least
AB
     two dentifrice components stored and phys.
     segregated in a multicompartmented collapsible dispenser
     provided with a partition which divides the interior vol. of the
     container into sep. compartments, the
    partition being movable in response to a pressure differential
     developed thereacross upon the application of compressive force to the
     sidewalls, the individuals dentifrice components
     contg. ingredients which interact when mixed, the
     dispenser sidewalls being formed of a resilient plastic material
     which is deflected upon the application thereto of a deflective force of
     about 1.0 or greater pounds, the dentifrice components
    being formulated to be equally extrudable at substantially equiv.
     compressive forces. When the dispenser sidewalls are
     compressed, there is extruded a single-banded unmixed multilayer stream of
     the components contg. the reactive ingredients at ratios
     predetd. to provide optimum levels for interaction between the reacted
     ingredients when the extruded components are mixed in
     the oral cavity. Dual compartmented tubes
     having a body length of 158 mm were filled with components 1 and
     2 of a multicomponent dentifrice. The compressive
     force required to extrude component 1 and 2 was 2.53 and 2.59
     lbs.
     dentifrice codispensing multicompartment
ST
     dispenser
ΙT
     Bicarbonates
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (alkali metal; codispensing of phys. segregated dentifrices
        at consistent ratios)
ΙT
     Surfactants
        (anionic; codispensing of phys. segregated dentifrices at
        consistent ratios)
ΙT
     Surfactants
        (cationic; codispensing of phys. segregated dentifrices at
        consistent ratios)
     Antibacterial agents
IT
       Dentifrices
     Thickening agents
        (codispensing of phys. segregated dentifrices at consistent
        ratios)
     Fluorides, biological studies
IT
     Peroxides, biological studies
     Vitamins
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (codispensing of phys. segregated dentifrices at consistent
        ratios)
IT
     Acids, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (org.; codispensing of phys. segregated dentifrices at
        consistent ratios)
     Carboxylic acids, biological studies
ΙT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
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(polymers; codispensing of phys. segregated dentifrices at

```
consistent ratios)
     77-92-9, Citric acid, biological studies
                                                    151-21-3, Sodium lauryl
IT
     sulfate, biological studies 1305-79-9, Calcium peroxide 7631-86-9, Silica, biological studies 7681-49-4
     , Sodiumfluoride, biological studies 7722-84-1, Hydrogen
     peroxide, biological studies
                                       7722-88-5, Tetrasodium
     pyrophosphate 7757-79-1, Potassium nitrate,
     biological studies
                            7757-93-9, Dicalcium phosphate
                                                               7758-29-4, Sodium
     tripolyphosphate 9000-07-1, Carrageenan gum
                                                          9004-34-6, Cellulose,
                            10103-46-5, Calcium phosphate
     biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
         (codispensing of phys. segregated dentifrices at consistent
        ratios)
L81 ANSWER 22 OF 34 HCAPLUS COPYRIGHT 2002 ACS
     1997:516217 HCAPLUS
ΑN
DN
     127:126368
TΙ
     Dual component tooth whitening
     dentifrice
     Christina-Beck, Lisa M.; Curtis, John P.; Greenfeder, Susan E.; Theiler,
IN
     Richard
     Colgate-Palmolive Company, USA
PΑ
SO
     PCT Int. Appl., 27 pp.
     CODEN: PIXXD2
DТ
     Patent
     English
LA
     ICM A61K007-20
IC
     ICS A61K007-16
CC
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 1
                        KIND DATE
                                               APPLICATION NO.
                                                                  DATE
     PATENT NO.
                                               ______
                              19970619
                                              WO 1996-US19286 19961205
     WO 9721419
                       A1
PΤ
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM,
         AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
              IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
              MR, NE, SN, TD, TG
                                               CA 1996-2238789 19961205
     CA 2238789
                              19970619
                        AA
                                               AU 1997-12782
     AU 9712782
                        A1
                              19970703
                                                                  19961205
     AU 707293
                        B2
                              19990708
     CN 1207669
                        Α
                              19990210
                                               CN 1996-199587
                                                                  19961205
     BR 9611911
                        Α
                              19990406
                                               BR 1996-11911
                                                                  19961205
PRAI US 1995-8389P
                        Ρ
                              19951208
                        W
     WO 1996-US19286
                              19961205
     A dual component whitening
AB
     dentifrice compn. is disclosed which comprises a first
     dentifrice component contg. a peroxide compd. such as
     urea peroxide and a second dentifrice
     component contg. an abrasive such as alumina or silica
     which is incompatible with the peroxide, the first and second
     dentifrice components being maintained sep.
     from the other until dispensed and combined for application to
     teeth requiring whitening.
     dentifrice whitening dual component;
ST
     peroxide dentifrice whitening
     Antibacterial agents
TT
         (dual component tooth whitening
        dentifrice)
```

```
IT
     Peroxides, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (dual component tooth whitening
        dentifrice)
ΙT
     Dentifrices
        (whitening; dual component tooth
        whitening dentifrice)
IT
     124-43-6
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dual component tooth whitening
        dentifrice)
TΤ
     50-81-7, Vitamin C, biological studies 1344-28-1, Alumina, biological
     studies 3380-34-5, Triclosan 6485-39-8, Manganese gluconate
     7439-96-5D, Manganese, complexes, biological studies 7440-09-7D,
     Potassium, salts, biological studies 7631-86-9, Silica
     , biological studies 7757-79-1, Potassium
     nitrate, biological studies
     RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
     BIOL (Biological study); USES (Uses)
        (dual component tooth whitening
        dentifrice)
L81 ANSWER 23 OF 34 HCAPLUS COPYRIGHT 2002 ACS
    1997:372596 HCAPLUS
AN
DN
     127:55674
     Dental compositions containing bicarbonates and zinc salts for treating
TI
     gingival and periodontal tissues
     Williams, David R.; Ryles, Christine W.; Barrow, Stephen R.
IN
PA
    Chesebrough-Pond's Usa Co., USA
SO
     U.S., 6 pp.
     CODEN: USXXAM
DT
    Patent
LA
    English
     ICM A61K007-16
TC
     ICS A61K007-18; A61K007-20; A61K033-40
NCL 424049000
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
                  KIND DATE
     PATENT NO.
                                         APPLICATION NO. DATE
    US 5632972 A 19970527 US 1994-269429 19940630 US 5616313 A 19970401 US 1995-419790 10050418
ΡI
                    A 19970401
PRAI US 1994-269429
                           19940630
    A method for minimizing damage to gingival and periodontal tissue is
     provided through steps that include delivering a first compn. contg. a
     zinc salt to a receptacle, delivering a second compn. contg. a bicarbonate
     salt to the same receptacle, and transferring within five minutes of
     delivery to the receptacle the combination into the mouth onto the
     gingival and periodontal tissues. Where the compns. are semi-solid such
     as in a toothpaste and/or gel, the receptacle is ordinarily a
     toothbrush. Liq. compns. such as mouthrinses may employ an expectorant
     cup as a receptacle. A dual compartment mouthwash
     contained a first liq. comprising 35% hydrogen peroxide
     4.3, zinc citrate 4.0, dye 0.003, phosphoric acid 0.04, and water balance;
     and second liq. comprising ethanol 24.0, humectant 7.0, sodium bicarbonate
     2.0, solubilizer 0.4, flavor 0.4, saccharin 0.07, and sodium lauryl
     sulfate 0.6, and water for balance. The compn. of these invention
     significantly reduced bleeding, exhibited a significant improvement in the
     modified gingival index and had some effect in reducing plaque.
     dental compn bicarbonate zinc salt gingiva; periodontal tissue dental
ST
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compn bicarbonate zinc

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IT
    Dentifrices
    Gingiva
    Mouthwashes
        (dental compns. contg. bicarbonates and zinc salts for treating
        gingival and periodontal tissues)
IT
     Fluorides, biological studies
     Hydroperoxides
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (dental compns. contg. bicarbonates and zinc salts for treating
        gingival and periodontal tissues)
ΙT
    Carbonates, biological studies
     Phosphates, biological studies
     Silicates, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (per-; dental compns. contq. bicarbonates and zinc salts for treating
        gingival and periodontal tissues)
IT
    Group IIIA element compounds
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (perborates; dental compns. contg. bicarbonates and zinc salts for
        treating gingival and periodontal tissues)
IT
     Periodontium
        (pocket; dental compns. contg. bicarbonates and zinc salts for treating
        gingival and periodontal tissues)
              144-55-8, Carbonic acid monosodium salt, biological
ΙT
    124-43-6
              546-46-3, Zinc citrate 1305-79-9, Calcium peroxide
     studies
    7681-49-4, Sodium fluoride, biological studies
    7722-84-1, Hydrogen peroxide, biological
              16039-53-5, Zinc lactate
     studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (dental compns. contq. bicarbonates and zinc salts for treating
        gingival and periodontal tissues)
L81 ANSWER 24 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1997:342722 HCAPLUS
DN
    127:23598
    Anhydrous tooth whitening gel containing carbamide
TI
    peroxide
    Pellico, Michael A.; Sababa, Veronica
IN
    Laclede Professional Products, Inc., USA
PA
SO
    U.S., 5 pp.
    CODEN: USXXAM
DT
    Patent
    English
LA
    ICM A61K007-16
IC
    ICS A61C005-00
NCL
    424053000
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 2
    PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                    ----
                                         -----
    US 5631000 .
                    A 19970520
                                        US 1996-599364 19960311
PΙ
                     A 19980217
    US 5718886
                                          US 1996-772422 19961223
PRAI US 1996-599364
                          19960311
    An anhyd, dental bleaching gel compn. is provided which has improved
    package stability, improved rheol. and reduced sensitivity during use. An
     illustrative anhyd. dental bleaching gel compn. embodying these features
     comprises propylene glycol, polyethylene glycol,
```

glycerin in an amt. not exceeding about 10 wt. %, neutralized

carboxypolymethylene, hydroxypropylcellulose, and

```
carbamide peroxide. Formulations of various anhyd.
    dental bleaching gels are disclosed.
ST
    anhyd tooth whitening gel carbamide peroxide
IT
    Polyoxyalkylenes, biological studies
    Thickening agents
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (anhyd. tooth whitening gel contg. carbamide peroxide
IT
    Dentifrices
        (gels; anhyd. tooth whitening gel contg. carbamide
       peroxide)
    Alcohols, biological studies
TT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (polyhydric; anhyd. tooth whitening gel contg. carbamide
    56-81-5, 1,2,3-Propanetriol, biological studies
IT
    57-55-6, 1,2-Propanediol, biological studies
    124-43-6, Carbamide peroxide.
                                        9007-20-9,
    9004-64-2, Hydroxypropylcellulose
    Carboxypolymethylene 25322-68-3 138757-67-2, Carbopol 980
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (anhyd. tooth whitening gel contg. carbamide peroxide
L81 ANSWER 25 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1997:233701 HCAPLUS
DN
    126:216483
    Dentifrices containing calcium compounds and carbamide
ΤI
    Sakuma, Shuji; Atsumi, Kiminori; Ishizaki, Tsutomu
IN
PΑ
    Sangi Kk, Japan
    Jpn. Kokai Tokkyo Koho, 6 pp.
SO
    CODEN: JKXXAF
DT
    Patent
    Japanese
LA
IC
    ICM A61K007-22
    62-7 (Essential Oils and Cosmetics)
    Section cross-reference(s): 63
FAN.CNT 1
    PATENT NO.
                   KIND DATE
                                          APPLICATION NO. DATE
                    ----
                                          -----
    _____
                                                          _____
                     A2 19970210
                                          JP 1995-216666 19950802
    JP 09040539
ΡI
    Dentifrices contain Ca compds. and carbamide
AΒ
    peroxide (I), those synergistically prevent discoloration
    of the teeth and promote remineralization of teeth
    surfaces. A toothpaste contq. hydroxyapatite (II) 35.0, I 5.0,
    glycerin 34.5, carrageenan 1.0, sucrose fatty acid ester 1.0,
    hydroxyethyl cellulose 2.0, sorbitol 20.0, and flavor 1.5% was formulated.
    The bleaching and coating effects of a 5% soln. of the
    toothpaste on human teeth were higher than those of
    controls contg. II or I sep.
    dentifrice bleaching calcium carbamide
    peroxide; tooth remineralization dentifrice
    hydroxyapatite carbamide peroxide
    Bleaching agents
ΙT
      Dentifrices
        (dentifrices contg. Ca compds. and carbamide
       peroxide for tooth bleaching and
       remineralization)
    124-43-6, Carbamide peroxide 471-34-1,
IT
```

AN

DN

ΤI

INPA

SO

DT

LA

IC

CC

PT

OS

· AB

ST

IT

1306-06-5, Hydroxyapatite Calcium carbonate, biological studies 7757-93-9, Calcium hydrogen phosphate 7758-23-8, Calcium dihydrogen 7758-87-4, Tricalcium phosphate phosphate 10086-45-0, Calcium pyrophosphate 10103-46-5, Calcium phosphate 13767-12-9, Octacalcium phosphate RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dentifrices contg. Ca compds. and carbamide peroxide for tooth bleaching and remineralization) L81 ANSWER 26 OF 34 HCAPLUS COPYRIGHT 2002 ACS 1996:746259 HCAPLUS 126:22785 Oxidative hair day compositions containing diaminopyrazoles derivatives Vidal, Laurent; Burande, Agnes; Malle, Gerard; Hocquaux, Michel Oreal S. A., Fr. Eur. Pat. Appl., 32 pp. CODEN: EPXXDW Patent French ICM A61K007-13 ICS C07D231-38; B65D081-32; A61K007-00 62-3 (Essential Oils and Cosmetics) FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ______ ____ _____ EP 1996-400950 EP 740931 Α1 19961106 19960503 19970820 EP 740931 В1 R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE FR 1995-5422 FR 2733749 Α1 19961108 19950505 FR 2733749 В1 19970613 AΑ CA 1996-2217333 19960503 CA 2217333 19961107 A1 . 19961107 WO 1996-FR675 WO 9634591 19960503 W: BR, CA, CN, JP, PL, RU 19970915 AT 1996-400950 19960503 AT 156998 E ES 2109111 Т3 19980101 ES 1996-400950 19960503 JP 10506672 Т2 19980630 JP 1996-533082 19960503 JP 3128245 В2 20010129 CN 1189772 19980805 CN 1996-195290 19960503 A BR 1996-8393 BR 9608393 19990504 19960503 A JP 2000186226 Α2 20000704 JP 1999-371719 19960503 US 6099592 Α 20000808 US 1996-642622 19960503 C2 RU 2168326 20010610 RU 1997-120112 19960503 B1 US 2000-494762 US 6338741 20020115 20000131 A1 US 2001-978764 US 2002050013 20020502 20011018 PRAI FR 1995-5422 Α 19950505 AЗ JP 1996-533082 19960503 US 1996-642622 A1 19960503 WO 1996-FR675 W 19960503 US 2000-494762 A1 20000131 MARPAT 126:22785 The title compns. are claimed. Thus, 5-amino-1,3-dimethyl-4nitrosopyrazole was hydrogenated and treated with HCl to obtain 4,5-diamino-1,3-dimethylpyrazole.2HCl (I). A hair dye compn. contained I 0.597, 2,6-dihydroxy-4-methylpyridine dihydrochloride monohydrate 0.530, excipients and water q.s. 100 g. At the time of use, the compn. is mixed with equal amt. of 20 vol. hydrogen peroxide and applied for 30 min on the hair. oxidative hair day compn aminopyrazole deriv Alcohols, uses

RL: NUU (Other use, unclassified); USES (Uses)

```
(C1-4; oxidative hair dye compns. contg. diaminopyrazoles derivs.)
     Hair preparations
ΙT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (dyes, oxidative; oxidative hair dye compns. contg. diaminopyrazoles
        derivs.)
IT
     Glycols, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (ethers; oxidative hair dye compns. contg. diaminopyrazoles derivs.)
ΙT
     Ethers, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (glycol; oxidative hair dye compns. contg. diaminopyrazoles derivs.)
ΙT
     Coupling agents
       Peroxysulfates
     Salts, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
ΙT
     Glycols, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
ΙT
     Group IIIA element compounds
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (perborates; oxidative hair dye compns. contg. diaminopyrazoles
        derivs.)
               106-50-3, 1,4-Benzenediamine, biological studies
IT
     95-55-6
                591-27-5 7722-84-1, Hydrogen
     peroxide, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
                                 81197-99-1P
                                               184172-82-5P
                                                               184172-83-6P
ΙT
     64068-32-2P
                   64068-33-3P
                    184172-89-2P
                                   184172-91-6P
     184172-86-9P
     RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant
    or reagent); USES (Uses)
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
                                 76492-69-8P
                                                              78467-10-4P
IT
     57047-11-7P
                   63536-19-6P
                                                76492-70-1P
                                                                103245-15-4P
     89868-34-8P
                   96886-30-5P
                                 103245-13-2P
                                                 103245-14-3P
                                                   103245-19-8P
                                                                  103245-23-4P
     103245-16-5P
                    103245-17-6P
                                   103245-18-7P
                                                   132026-43-8P
                                                                  132026-44-9P
     122128-84-1P
                    132026-22-3P
                                   132026-41-6P
                                                   132026-83-6P
                                                                  153990-62-6P
     132026-45-0P
                    132026-72-3P
                                   132026-73-4P
     153990-63-7P
                    153990-64-8P
                                   153990-65-9P
                                                   153990-66-0P
                                                                  153990-67-1P
                                                   153990-71-7P
                                                                  184172-92-7P
     153990-68-2P
                    153990-69-3P
                                   153990-70-6P
                                   184172-96-1P
                                                   184172-97-2P
                                                                  184172-98-3P
     184172-94-9P
                    184172-95-0P
                                                                  184173-03-3P
                    184173-00-0P
                                   184173-01-1P
                                                   184173-02-2P
     184172-99-4P
                    184173-05-5P
                                   184173-06-6P
                                                   184173-07-7P
                                                                  184173-08-8P
     184173-04-4P
                                                   184173-12-4P
                                                                  184173-13-5P
     184173-09-9P
                    184173-10-2P
                                   184173-11-3P
                    184173-15-7P
                                   184173-16-8P
                                                   184173-17-9P
                                                                  184173-18-0P
     184173-14-6P
                    184173-20-4P
                                    184173-21-5P
                                                   184173-22-6P
                                                                  184173-23-7P
     184173-19-1P
                    184173-25-9P
                                                   184173-27-1P
                                                                  184173-28-2P
     184173-24-8P
                                   184173-26-0P
                    184173-30-6P
                                                   184173-32-8P
                                                                  184173-33-9P
                                   184173-31-7P
     184173-29-3P
                                   184173-36-2P
                                                   184173-37-3P
                                                                  184173-38-4P
     184173-34-0P
                    184173-35-1P
                                                                  184173-43-1P
                                                   184173-42-0P
     184173-39-5P
                    184173-40-8P
                                    184173-41-9P
                                                   184173-47-5P
                                                                  184173-48-6P
                    184173-45-3P
                                   184173-46-4P
     184173-44-2P
     RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
ΙT
     56-81-5, 1,2,3-Propanetriol, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (oxidative hair dye compns. contg. diaminopyrazoles derivs.)
                                107-15-3, 1,2-Ethanediamine, reactions
ΙT
     60-34-4, Methylhydrazine
```

110-46-3, Isoamyl nitrite 555-96-4, Benzylhydrazine 614-16-4. Benzoylacetonitrile 1118-61-2, 3-Aminocrotonitrile 1131-18-6 59997-51-2, 4,4-Dimethyl-3-oxopentanenitrile 66971-55-9, 1,3-Dimethyl-5-hydrazino-4-nitropyrazole RL: RCT (Reactant); RACT (Reactant or reagent) (oxidative hair dye compns. contg. diaminopyrazoles derivs.) 109-84-2P, .beta.-Hydroxyethylhydrazine 1134-82-3P ΙT 3524-32-1P, 10199-50-5P, 5-Amino-1-methyl-3-5-Amino-1,3-dimethylpyrazole 19848-97-6P 51546-08-8P 52943-85-8P 52943-88-1P phenylpyrazole 132026-21-2P 54454-10-3P 58663-94-8P 118430-73-2P 132026-23-4P 184172-85-8P 141459-53-2P 184172-84-7P 184172-87-0P 132026-42-7P 184172-90-5P 184172-93-8P 184172-88-1P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (oxidative hair dye compns. contg. diaminopyrazoles derivs.) ANSWER 27 OF 34 HCAPLUS COPYRIGHT 2002 ACS L811996:229350 HCAPLUS AN DN 124:281735 Hamster cheek pouch bioassay of dentifrices containing TI hydrogen peroxide and baking soda Marshall, Milton V.; Kuhn, Janice O.; Torrey, Charles F.; Fischman, Stuart ΑU L.; Cancro, Lewis P. Dermigen, Smithville, TX, USA CS Journal of the American College of Toxicology (1996), 15(1), 45-61 SO CODEN: JACTDZ; ISSN: 0730-0913 PB Lippincott-Raven DTJournal LA English CC 4-6 (Toxicology) Section cross-reference(s): 62 The objective of this study was to det. the effects of hydrogen AΒ peroxide alone and in combination with 7,12dimethylbenza[a]anthracene (DMBA) in the oral cavity because H2O2 has been implicated as a complete carcinogen or cocarcinogen in two animal models. In the two independent studies, golden Syrian hamsters were used to evaluate the carcinogenic and cocarcinogenic potential of dentifrices contg. H2O2 and NaHCO3. In the first study, the cocarcinogenic potential of a dentifrice contq. 0.75% H2O2/5% baking soda was compared with that of a com. dentifrice with similar ingredients except baking soda and H2O2. In the second study, the cocarcinogenic potential of a dentifrice formulated with 1.5% H2O2 /7.5% baking soda was compared with a mixt. of 3% H2O2 /baking soda. All materials were applied to the right cheek pouches of exptl. animals, and the left cheek pouches were untreated. In the first study, 0.5% DMBA was administered five times weekly for 20 wk, and the dentifrices were applied immediately after the DMBA. Dentifrices or mineral oil alone were also applied five times In the second study, 0.5% DMBA or 0.25% DMBA were applied three times weekly for 16 wk; dentifrices (or 3% H2O2/baking soda) were applied five times weekly for 16 wk. The dual-phase dentifrice contg. 0.75% H2O2/5% baking soda was not carcinogenic, and in combination with DMBA resulted in no observable acceleration of tumor onset, compared with DMBA alone. In fact, animals treated with 0.5% DMBA and the H2O2/baking soda dentifrice had a significantly delayed onset of tumor formation than did animals treated with DMBA alone. In the second bioassay, an increased latency period for tumor formation was obsd. with 0.5% DMBA and a dual-phase dentifrice contg. 1.5% H202 /7.5% baking soda, compared with 0.5% DMBA alone. With 0.25% DMBA, latency was not affected by addn. of the dual-phase

dentifrice. In contrast, animals receiving 0.25% DMBA and 3%

H202/NaHCO3 had a significantly lower rate of tumor formation and overall mass incidence. Croton oil also reduced the rate of tumor formation when applied with 0.25% DMBA. Histopathol. examn. of cheek pouches revealed squamous cell carcinomas in the majority of DMBA-treated animals. Cheek pouches of DMBA-treated animals killed at interim times indicated a progression from keratotic changes and/or dyskeratosis at 6 wk with the occurrence of carcinomas in approx. half the animals examd. at 12 wk. No significant histopathol. abnormalities were obsd. in animals not receiving DMBA other than slight keratosis in the oral mucosa of one or two animals per group. These results demonstrated that na oral product contg. baking soda and hydrogen peroxide was not carcinogenic, and that baking soda and H2O2 did not enhance the tumorigenicity of DMBA. Furthermore, the tumorigenic response of DMBA was reduced by coadministration of 3% H2O2 and sodium bicarbonate.

ST carcinogen hydrogen peroxide baking soda mouth; carcinogenicity oral mucosa dentifrice

IT Carcinogens

Dentifrices

(carcinogenicity of dentifrices contg. hydrogen peroxide and baking soda)

IT Mouth

(mucosa, carcinogenicity of dentifrices contg.

hydrogen peroxide and baking soda)

IT 144-55-8, Sodium bicarbonate, biological studies 7722-84-1,
 Hydrogen peroxide, biological studies

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (carcinogenicity of dentifrices contg. hydrogen peroxide and baking soda)

L81 ANSWER 28 OF 34 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:305745 HCAPLUS

DN 122:89159

TI Dental compositions with zinc and bicarbonate salts

IN Williams, David R.; Ryles, Christine W.; Barrow, Stephen R.

PA Chesebrough-Pond's USA Co., USA

SO U.S., 5 pp. CODEN: USXXAM

DT Patent

LA English

IC ICM A61K007-18

NCL 424053000

CC 62-7 (Essential Oils and Cosmetics)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|--------|---------------|--------------------|--------------|
| PI | US 5372803 | A | 19941213 | US 1993-116094 | 19930902 |
| | CA 2130606 | AΑ | 19950303 | CA 1994-2130606 | 19940822 |
| | EP 643957 | A2 | 19950322 | EP 1994-202410 | 19940823 |
| | EP 643957 | A3 | 19970122 | | |
| | EP 643957 | В1 | 20011024 | | |
| | R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IE, IT, LI | , NL, PT, SE |
| | AT 207339 | E | 20011115 | AT 1994-202410 | 19940823 |
| | ES 2165373 | Т3 | 20020316 | ES 1994-202410 | 19940823 |
| | US 5456902 | A | 19951010 | US 1994-300838 | 19940902 |
| | US 5554358 | Α | 19960910 | US 1995-419788 | 19950411 |
| PRAI | US 1993-116094 | Α | 19930902 | | |
| | US 1994-300838 | A3 | 19940902 | | |

AB A dental product is provided in a dual-compartment dispenser that includes a first and second compn. in resp. compartments thereof. The first compn. includes a zinc salt while the second compn. includes a bicarbonate salt. Preferably the first compn. also contains a peroxygen compd. or a C2-C20 carboxylic acid. The

zinc salt in combination with the bicarbonate salt achieves an enhanced antitartar effect. ST dental compn zinc bicarbonate IT Carboxylic acids, biological studies Peroxides, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dental compns. with zinc and bicarbonate salts) ITTooth (disease, calculus, dental compns. with zinc and bicarbonate salts) IT Dentifrices (gels, dental compns. with zinc and bicarbonate salts) 50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, IT biological studies 71-52-3D, Bicarbonate, salts 77-92-9, Citric acid, biological studies 124-43-6 144-55-8, Sodium bicarbonate, biological studies 546-46-3, Zinc citrate 1305-79-9, Calcium peroxide 6915-15-7, Malic acid 7440-66-6D, Zinc, salts **7722-84-1**, Hydrogen peroxide, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dental compns. with zinc and bicarbonate salts) ANSWER 29 OF 34 HCAPLUS COPYRIGHT 2002 ACS ΑN 1992:180961 HCAPLUS DN 116:180961 TI Flavor for peroxide-bicarbonate dual-component dentifrices IN Williams, David R.; Ryles, Christine W. PA Chesebrough-Pond's USA Co., USA SO U.S., 5 pp. CODEN: USXXAM DT Patent LA English IC ICM A61K007-16 ICS A61K007-20; A61K033-40 NCL 424053000 62-7 (Essential Oils and Cosmetics) CC FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----______ _____ -----US 5085853 A 19920204 US 1991-719871 19910624 PΙ Α 19930216 US 1992-816992 US 5186926 19920103 EP 520545 A1 19921230 EP 520545 B1 19950104 EP 1992-201718 19920612 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE ES 2067292 T3 19950316 ES 1992-201718 19920612 AA 19921225 CA 1992-2071311 19920616 CA 2071311 19961217 CA 2071311 С A2 19941011 JP 1992-166216 19920624 JP 06287121 PRAI US 1991-719871 19910624 A tooth paste comprises a peroxide gel component and a bicarbonate paste component. The former is flavored with a material which is reactively-incompatible with the bicarbonate (Me salicylate, cinnamic aldehyde, etc.), whereas the latter is flavored with a bicarbonate-comfortable material, such as menthol. A peroxide gel contained Pluronic F-127 20.00, glycerol 40.00, H2O2 (35%) 4.285, Me salicylate 0.50, dye 0.005, phosphoric acid 0.15% by wt., and the balance water. A bicarbonate gel contained PolyolII (sorbitol and other sugars) 48.710, Syloid 63XX (abrasive silica) 15.000, NaHCO3 10.000, PEG-32 5.000, Sylox 15x (thickening silica) 4.600, Na lauryl sulfate 2.980, SD Alc. 38B 2.850, cellulose gum 0.800, menthol 0.5000, Na saccharin 0.500, NaF 0.460, TiO2 0.300% by wt. and the balance water.

dentifrice dual component flavoring agent;

bicarbonate paste dentifrice flavoring agent; peroxide gel

ST

```
dentifrice flavoring agent
IT
    Dentifrices
        (bicarbonate paste-peroxide gel dual component,
        flavoring agents for)
TΤ
    Essential oils
    RL: BIOL (Biological study)
        (clove, flavoring agent, in peroxide gel, for dual-
        component dentifrices)
    1490-04-6, Menthol
TΤ
    RL: BIOL (Biological study)
        (flavoring agent, in bicarbonate paste, for dual-
        component dentifrices)
    104-55-2, Cinnamic aldehyde
TΤ
                                  119-36-8
    RL: BIOL (Biological study)
        (flavoring agent, in peroxide gel, for dual-component
        dentifrices)
    7722-84-1, Hydrogen peroxide, biological
IT
    studies
    RL: BIOL (Biological study)
        (gel contg. flavoring agent for, in dual-component
       dentifrices)
    144-55-8, Sodium bicarbonate, biological studies
ΙT
    RL: BIOL (Biological study)
        (paste contg., flavoring agents for, in dual-
        component dentifrices)
L81 ANSWER 30 OF 34 HCAPLUS COPYRIGHT 2002 ACS
ΑN
    1989:121452 HCAPLUS
DN
    110:121452
    Storage-stable antiseptic gel containing poly(glyceryl methacrylate) and
ΤI
    hydrogen peroxide
ΙN
    Pellico, Michael A.
PA
    USA
SO
    U.S., 4 pp.
    CODEN: USXXAM
DΤ
    Patent
    English
LA
IC
    ICM A61K033-40
NCL 424130000
    63-6 (Pharmaceuticals)
CC
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                     ----
                                          _____
    ______
                           19881101
    US 4781923 A
                                          US 1987-75440 19870720
PI
    An antiseptic gel compn., contg. poly(glyceryl methacrylate) hydrate (I)
AB
    gel and H2O2, adapted for application to infected dermal sites,
    is prepd. which is storage stable. I (Lubragel; 10.6 parts) was mixed
    with 1.0 part 35% H2O2 to produce a title gel having 3%
    H202 concn.
    antiseptic hydrogen peroxide gel formulation; storage
ST
    stability hydrogen peroxide antiseptic gel;
    polyglyceryl methacrylate gel hydrogen peroxide
    antiseptic
ΙT
    Humectants
        (antiseptic gel compns. contg.)
    Bactericides, Disinfectants, and Antiseptics
IT
        (gels, hydrogen peroxide and poly(glyceryl
       methacrylate) hydrate in)
ΙT
    Pharmaceutical dosage forms
        (emollients, antiseptic gel compns. contg.)
     Pharmaceutical dosage forms
TΤ
        (gels, antiseptic, hydrogen peroxide and
        poly(glyceryl methacrylate) hydrate in)
```

```
IT
    Skin, disease or disorder
        (infection, treatment of, gel contg. hydrogen
       peroxide and poly(glyceryl methacrylate) hydrate for)
ΙT
     Anesthetics
        (local, antiseptic gel compns. contg.)
     99752-46-2, Lubrajel
IT
     RL: BIOL (Biological study)
        (antiseptic gel contg. hydrogen peroxide and)
IT
     7722-84-1, Hydrogen peroxide, biological
     studies
    RL: BIOL (Biological study)
        (antiseptic poly(glyceryl methacrylate) gel compns. contg.)
TT
     28474-30-8, Polyglycerylmethacrylate
     RL: BIOL (Biological study)
        (gel, compns. contg. hydrogen peroxide and, as
        antiseptics for infected skin sites)
L81 ANSWER 31 OF 34 HCAPLUS COPYRIGHT 2002 ACS
AN
    1988:173389 HCAPLUS
DN
    108:173389
ΤI
    Dentifrice containing hydrogen peroxide and sodium
    bicarbonate and electrolytes for the control of gum disease
IN
    Schaeffer, Hans A.
PA
    USA
SO
    Eur. Pat. Appl., 38 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    English
    ICM A61K007-20
IC
     ICS B65D035-00
CC
    62-7 (Essential Oils and Cosmetics)
FAN.CNT 3
                                           APPLICATION NO. DATE
    PATENT NO.
                     KIND DATE
                                           -----
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                           ____
    EP 202359 A2
                           19861126
                                           EP 1985-108192 19850702
ΡI
                A3 19881123
B1 19940112
    EP 202359
    EP 202359
        R: DE, FR, GB, IT
    US 4687663 A 19870818
CA 1257545 A1 19890718
                                           US 1985-745993
                                                            19850617
                                           CA 1985-485823
                                                            19850628
                     A2 19861201
B4 19880217
    JP 61271214
                                           JP 1985-151178
                                                            19850709
    JP 63007522
    BR 8503355
                                           BR 1985-3355
                     A 19861209
                                                           19850709
                           19890128
    IN 164161
                     A
                                           IN 1985-CA510
                                                            19850709
                     19850523
PRAI US 1985-737157
    US 1985-745993
                          19850617
    US 1983-471188
                           19830301
    AU 1985-44459
                           19850701
    A dentifrice useful for the treatment of gum disease comprises a gel
AR
    component and a paste component which are combined prior
    to use. The gel component comprises H2O2 (I) 0.1-10,
    a water-dispersible copolymer of acrylic acid crosslinked with polyallyl
    sucrose 0.05-5, a nonionic cellulose stabilizer 0-2.0, a neutralizing
     agent selected from NaOH, KOH, N(CH2CH2OH)3,
    HN(CHMe2)2, and NH3 sufficient to raise the pH to 3-6, and water to 100%
    by wt. The paste component comprises NaHCO3 2-60, a salt
    selected from KCl, NaCl, MgCl2, MgSO4, Na2SO4, and K2SO4 0-6, a humectant
    selected from glycerol, sorbitol, polyethylene glycol, polypropylene glycol, ethoxylated fatty alcs., propoxylated fatty alcs.,
    or their mixts. 2-60, a thickener selected from cellulose gum,
    Mg Al silicate, and their mixts. 0.1-5, and a stabilizing
    polishing agent selected from bentonite, TiO2, SiO2, MgO, and
     their mixts. 1-30, and water to 100% by wt. The compn. is
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dispensed from a collapsible tube comprising 2 compartments, the gel liquifies immediately upon contact with a mildly alk. medium contg. a strong electrolyte thereby causing the release of bactericidally effective amts. of nascent O2. The effervescence produced in the process activates the flavor contained in the bicarbonate paste and produces a lasting and refreshing taste. A gel component contained 35% ag. I 11.5, H2O 86.6, Carbopol 934 1.5, Na lauryl sulfate 0.1, hydroxypropyl cellulose 0.3 parts by wt., and 10% NaOH q.s. (pH 3.0-4.5). A paste component contained glycerol 25.0, cellulose gum CMC 7MF 1.54, H2O 32.71, Mg Al silicate (Veegum) 1.10, Na saccharin 0.60, NaCl 2.0, methylparaben 0.15, propylparaben 0.05, NaF 0.22, bentonite 4.0, TiO2 2.0, SiO2 4.0, NaHCO3 25.0, flavor 1.0, Na lauryl sulfate 0.3 parts by wt., color q.s., and 10% NaOH q.s. dentifrice hydrogen peroxide bicarbonate gum disease ST ΙT Dentifrices (contg. hydrogen peroxide and electrolytes and bicarbonate, for control of gum disease) Smectite-group minerals IT RL: BIOL (Biological study) (dentifrice contg. hydrogen peroxide and bicarbonate and electrolytes and) Bentonite, biological studies IT RL: BIOL (Biological study) (dentifrice contg. hydrogen peroxide and electrolytes and bicarbonate and) ΙT Ginqiva (disease, treatment, dentifrice contg. hydrogen peroxide and electrolytes and sodium bicarbonate for) Alcohols, compounds IT RL: BIOL (Biological study) (fatty, ethoxylated, dentifrices contg. hydrogen peroxide and electrolytes and bicarbonate and) ΙT Alcohols, compounds RL: BIOL (Biological study) (fatty, propoxylated, dentifrices contg. hydrogen peroxide and electrolytes and bicarbonate and) ΙT Uronic acids RL: BIOL (Biological study) (poly-, dentifrices contg. hydrogen peroxide and electrolytes and bicarbonate and) 79-10-7D, polymers with allyl sucrose ΙT RL: BIOL (Biological study) (crosslinked, dentifrice contg. hydrogen peroxide and bicarbonate and electrolytes and) 57-50-1D, allyl ethers, polymers with acrylic acid IT RL: BIOL (Biological study) (crosslinked, dentifrice contg. hydrogen peroxide and electrolytes and bicarbonate and) 124-43-6 7722-84-1, biological studies IT RL: BIOL (Biological study) (dentifrice contg. bicarbonate and electrolytes and) 102-71-6, biological studies 108-18-9 **1310-58-3**, biological IT 7664-41-7, biological studies 1310-73-2, biological studies studies RL: BIOL (Biological study) (dentifrice contg. electrolytes and bicarbonate and) 7447-40-7, biological studies 7487-88-9, biological studies 7647-14-5, TΤ 7757-82-6, biological studies 7778-80-5, biological biological studies 7786-30-3, biological studies studies RL: BIOL (Biological study) (dentifrice contg. hydrogen peroxide and

bicarbonate and)

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IT
    25087-26-7, Poly(methacrylic acid
    RL: BIOL (Biological study)
        (dentifrice contg. hydrogen peroxide and
       bicarbonate and electrolytes and)
    144-55-8, Sodium bicarbonate, biological studies
ΙT
    RL: BIOL (Biological study)
        (dentifrice contg. hydrogen peroxide and
        electrolytes and)
    50-70-4, biological studies 56-81-5, biological studies
IT
    471-34-1, biological studies 546-93-0 1309-48-4, biological studies
    1333-84-2, Aluminum oxide hydrate 1343-88-0, Magnesium silicate
    7631-86-9, biological studies 7778-18-9 9007-16-3, Carbopol
          9062-04-8, Carbopol 941
                                    10103-46-5, Calcium phosphate
    13463-67-7, biological studies 25322-68-3 25322-69-4
                                                               76050-42-5,
    Carbopol 940
                   96827-24-6
    RL: BIOL (Biological study)
        (dentifrice contg. hydrogen peroxide and
        electrolytes and bicarbonate and)
    9004-32-4
               106392-12-5
ΙT
    RL: BIOL (Biological study)
        (dentifrice contg. hydrogen peroxide and sodium
       bicarbonate and electrolytes and)
    1327-43-1, Aluminum magnesium silicate
ΙT
    RL: BIOL (Biological study)
        (dentifrices contg. hydrogen peroxide and
        electrolytes and bicarbonate and)
    9004-34-6, Cellulose, biological studies
IT
    RL: BIOL (Biological study)
        (gum, dentifrice contg. hydrogen peroxide and
        electrolytes and bicarbonate and)
L81 ANSWER 32 OF 34 HCAPLUS COPYRIGHT 2002 ACS
    1986:539450 HCAPLUS
AN
DN
    105:139450
TΙ
    Dentifrices
    Simon, Gilbert I.; Witkin, Roy T.
ΙN
PΑ
    USA
SO
    U.S., 11 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K007-20
IC
    ICS A61K033-18; A61K031-79
NCL 222094000
    62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
    PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
                     ____
                                          _____
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    US 4592487 A
                                          US 1985-752236
                          19860603
                                                           19850703
PΙ
AB
    Dentifrices comprise 2 components, each of which
    comprises ingredients usually present in toothpastes or
    toothpowders, one component contg. an iodophor as a source of
    derived I and the other component contg. a source of active or
    nascent O. The 2 components are kept out of contact with one
    another and sep. filled into a suitable package so arranged and
    constructed that the components can be admixed and
    dispensed together to form an antimicrobial, antiplaque nontoxic
    dentifrice ready for use.
    dentifrice iodophor active oxygen
ST
IT
    Dentifrices
        (iodophor and active oxygen for)
    7722-84-1, uses and miscellaneous
IT
    RL: USES (Uses)
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(toothpaste contg. iodine compds. and) IΤ 7553-56-2, uses and miscellaneous 25655-41-8 RL: BIOL (Biological study) (toothpaste contg. peroxide and) ANSWER 33 OF 34 HCAPLUS COPYRIGHT 2002 ACS L81 1985:528825 HCAPLUS ΑN 103:128825 DN Dental preparation, article and method for its storage and delivery TI Schaeffer, Hans A. ΙN PA USA SO U.S., 6 pp. CODEN: USXXAM DT Patent LA English IC ICM B65D035-22 ICS A61K007-16; A61K007-18; A61K007-20 NCL 424052000 62-7 (Essential Oils and Cosmetics) Section cross-reference(s): 63 FAN.CNT 3 APPLICATION NO. KIND DATE DATE PATENT NO. ______ _____ _____ ______ US 1983-471188 19850709 19830301 PΙ US 4528180 Α 19870818 US 1985-745993 19850617 US 4687663 A 19890128 IN 1985-CA510 19850709 IN 164161 A US 4849213 A 19890718 US 1987-64880 19870619 A 19900804 IN 1988-CA855 19881017 IN 166888 A 19900804 IN 1988-CA856 19881017 IN 166889 US 4983379 A US 1989-369185 19890620 19910108 PRAI US 1983-471188 19830301 US 1985-737157 19850523 US 1985-745993 19850617 19850701 AU 1985-44459 19850709 IN 1985-CA510 US 1987-64880 19870619 A dental prepn. useful in treatment of gum disease comprises a gel AB component and a paste component delivered from a combination collapsible tube having flexible side walls. One compartment contains a gel formulated with H2O2 1-10, a water-dispersible acrylic polymer 0.05-12, nonionic cellulose gum 0.1-1.5% by vol., a neutralizing agent to raise to gel pH to 3-6, and the balance distd. or deionized H2O. The 2nd compartment contains a paste formulated with NaHCO3 10-50, salt 1-6, and a thickener/stabilizer such as a cellulose gum 1-3% by wt., adjuvants, and the balance $\mbox{H2O}.$ The gel and paste are in equal proportions, by vol. Thus, a gel prepn. contained H202 35% aq. soln. (5% in final product) 14.3, Carbopol 934 [9007-16-3] 0.5, hydroxyethyl cellulose [9004-62-0] 0.5, triethanolamine [102-71-6] 0.25, and purified H2O 84.45 parts. The paste prepn. contained NaHCO3 40, NaCl 4.0, CMC 7MF [9004-32-4] 1.44, Veegum F [1327-43-1] 1.17, adjuvants, H2O 31.94 parts. dental gel paste gum disease; collapsible tube delivery dental ST Dentifrices ΙT (gels and pastes, in collapsible tube for gum disease control) IT(disease, treatment, with gel-paste compn.) IT Containers (tubes, collapsible, gel-paste in, for treatment of gum disease) 144-55-8, biological studies 1327-43-1 7487-88-9, IT 124-43-6 9004-32-4 7647-14-5, biological studies biological studies RL: BIOL (Biological study) (dental compn. contg. gels and, in collapsible tubes, for treatment of gum disease)

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102-71-6, biological studies 1310-73-2, biological studies
ΙT
     9004-62-0 9004-64-2 9004-65-3 9007-16-3
     RL: BIOL (Biological study)
        (dental compn. contg. paste and, in collapsible tubes, for treatment of
        qum disease)
     7722-84-1, biological studies
ΙT
     RL: BIOL (Biological study)
        (dental compns. contg. paste and, in collapsible tubes, for treatment
        of qum disease)
    ANSWER 34 OF 34 HCAPLUS COPYRIGHT 2002 ACS
L81
     1975:448206 HCAPLUS
AN
DN
     83:48206
     Carrier gels for cosmetics and pharmaceuticals
·TI
PA
     Wilkinson Sword Ltd., UK
SO
     Neth. Appl., 34 pp.
     CODEN: NAXXAN
DT
     Patent
LA
     Dutch
IC
     B44D
CÇ
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 5, 37, 42, 46, 50, 62
                                          APPLICATION NO. DATE
                    KIND DATE
     PATENT NO.
                     ____
                                          -----
     _____
     NL 7403351 A 19740917
                                        NL 1974-3351
                                                          19740312
PRAI GB 1973-11231
                           19730314
     Gels were prepd. at the time and point of application by simultaneously
     forcing a gelable lig. and gelling agent, which were kept in sep
     . containers, through a common flowpath. Mixing of the
     pressurized components was done (a) inside the app., before
     passing a common sprayhead, or (b) outside the app., by placing 2
     sep. sprayheads in close proximity to each other. Active agents
     were incorporated in either or both of the components, thereby
     bypassing storage problems which may arise from incompatibility of some
     ingredients. Aq. hydrophobic sol systems, aq. macromol. colloidal
     systems, and organosols can be prepd. in the above manner for applications
     in medicine, cosmetics, agriculture, sanitation, painting, and other
     fields. For example, a hypochlorite gel for treatment of burns was prepd.
     by mixing (a) a 6% sol of Laponite SP [37320-78-8] in distilled
     water and (b) a gelling agent prepd. by mixing 2.8 g CaCl2.2H2O
     [10043-52-4] in 50 ml distilled water with 0.1 g NaOH and 2.9 g
     com. LiOC1 [13840-33-0] (30% active ingredient) in 50 ml distilled water.
     Components a and b were stored in sep.
     compartments of an aerosol can under fluorocarbon pressure and
     mixed during release in the proportion 4:1.
ST
     gel carrier cosmetic pharmaceutical
ΙT
     Rubber, silicone
     Rubber, synthetic
        (as carrier gel component)
IT
     Silica gel, biological studies
     RL: BIOL (Biological study)
        (as cosmetic and pharmaceutical carrier gel component)
IT
     Cosmetics
     Pharmaceuticals
        (carrier gels for)
ΙT
     Colloids
        (gels, carrier)
ΙT
        (prepns. for, carrier gels in)
     25068-38-6 39421-77-7
IT
     RL: BIOL (Biological study)
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(as adhesive gel component)

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IT
    7761-88-8, biological studies
    RL: BIOL (Biological study)
        (as antiseptic gel component)
     9000-40-2
                9002-89-5
                                        9005-38-3
IT
                            9004-65-3
                                                    9007-16-3
                                                                12001-31-9
                 1318-93-0, uses and miscellaneous 25322-68-3
     56275-09-3
                                                                  37320-78-8
    RL: BIOL (Biological study)
        (as carrier gel component)
    57-09-0
              7664-41-7, biological studies
IT
    RL: BIOL (Biological study)
        (as cleaning gel component)
IT
     62-76-0
              64-19-7, biological studies
                                            144-62-7, biological studies
    15248-76-7
    RL: BIOL (Biological study)
        (as coating gel component)
    144-55-8, uses and miscellaneous
IT
    RL: USES (Uses)
        (as fire extinguishing gel component)
              540-73-8 611-73-4 1303-96-4 1310-73-2, biological
ΙT
    64-02-8
                                              7705-08-0, biological studies
              7487-88-9, biological studies
    studies
    7757-83-7
                9002-93-1 10043-01-3 10043-52-4, biological studies
                10124-37-5
                              10476-85-4 13840-33-0 102-71-6, uses and
    10124-29-5
    miscellaneous
    RL: BIOL (Biological study)
        (as gelling agent, for carrier gel)
    6369-59-1 7722-84-1, biological studies
                                              7775-14-6
                                                          39156-41-7
TT
    RL: BIOL (Biological study)
        (as hair dye gel component)
              1762-95-4
IT
     61-82-5
    RL: BIOL (Biological study)
        (as herbicide gel component)
                                                 16536-30-4
                          521-31-3
                                     7727-21-1
IT
    131-11-3
               517-51-1
    RL: BIOL (Biological study)
        (as luminescent gel component)
=> d all tot 180
L80 ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2002 ACS
    2001:255849 HCAPLUS
AN
    134:261236
DN
    Oxidoreductase-peroxidase di-enzymatic treatment of outer ear infection in
TΤ
    dogs and cats
IN
    Pellico, Michael A.
PΑ
    USA
    U.S., 7 pp.
SO
    CODEN: USXXAM
DT
    Patent
LA
    English
    A61K038-44; A61K038-47; C12N009-02; C12N009-14
TC
NCL
    424094400
CC
    1-5 (Pharmacology)
    Section cross-reference(s): 63
FAN.CNT 1
    PATENT NO.
                                          APPLICATION NO.
                                                           DATE
                     KIND DATE
                                          -----
                           -----
               B1
                           20010410
                                          US 2000-481861
                                                           20000112
    US 6214339
PT
    Otitis externa is treated in dogs and cats by administering to the outer
AB
    ear of the infected animal a dosage, effective to alleviate the symptoms
    of the infection, of a substantially non-aq., di-enzymic therapeutic
    compn., in a liq. or gel fluid carrier. The compn. contains an oxidizable
    substrate and an oxidoreductase enzyme specific to such substrate for
    producing hydrogen peroxide upon encountering the environment of the outer
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ear and further contains an iodide salt and a peroxidatic peroxidase for

interacting with the hydrogen peroxide to produce a hypoiodite biocidal agent. Any unbound water present in the compn. is limited to an amt. not more than about 1.0 wt.% to stabilize the compn. against the prodn. of hydrogen peroxide prior to aural application of the compn. to enhance efficacy of treatment. An illustrative di-enzymic compn. compn. contains glucose, glucose oxidase, potassium iodide and lactoperoxidase in a fluid mixt. of glycerol and propylene glycol.

outer ear infection dog cat enzyme treatment; oxidoreductase peroxidase ear infection dog cat; glucose oxidase ear infection dog cat; lactoperoxidase iodide ear infection dog cat

IT Halogen compounds

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(hypoiodites; oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT Ear

(otitis, otitis externa; oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT Antibacterial agents

Biocides

Cat (Felis catus)

Dog (Canis familiaris)

Drug delivery systems

(oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT Lactoferrins

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT Iodides, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT Drugs

(veterinary; oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT 7722-84-1, Hydrogen peroxide, biological studies 15065-65-3, Hypoiodite
RL: BAC (Biological activity or effector, except adverse); BPR (Biological
process); BSU (Biological study, unclassified); THU (Therapeutic use);
BIOL (Biological study); PROC (Process); USES (Uses)

(oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT 50-99-7D, Glucose, amino derivs. 9000-88-8, D-Amino acid oxidase 9001-37-0, Glucose oxidase 9001-63-2, Lysozyme 9003-99-0, Peroxidase 9031-28-1, Iodide peroxidase 9055-15-6, Oxidoreductase 37255-41-7, D-Glutamate oxidase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

IT 50-99-7, Dextrose, biological studies 338-69-2, D-Alanine 492-61-5, .beta.-D-Glucose 6893-26-1, D-Glutamic acid 7681-11-0, Potassium iodide, biological studies 7681-82-5, Sodium iodide, biological studies 12027-06-4, Ammonium iodide 20461-54-5, Iodide, biological studies RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats)

56-81-5, Glycerol, biological studies 57-55-6, Propylene glycol, IT 3416-24-8, Glucosamine 7512-17-6, biological studies N-Acetylglucosamine RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oxidoreductase-peroxidase di-enzymic treatment for outer ear infection in dogs and cats) THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT ŔĖ (1) Djurickovic; US 4331686 1982 HCAPLUS (2) Hoogendorn; US 4150113 1979 HCAPLUS (3) Hoogendorn; US 4178362 1979 HCAPLUS (4) Montgomery; US 4576817 1986 HCAPLUS (5) Montgomery; US 4617190 1986 (6) Orndorff; US 4370199 1983 (7) Pellico; US 4269822 1981 HCAPLUS (8) Pellico; US 4537764 1985 HCAPLUS (9) Pellico; US 4564519 1986 HCAPLUS (10) Pellico; US 4578265 1986 HCAPLUS (11) Pellico; US 5336494 1994 HCAPLUS (12) Pellico; US 5453284 1995 HCAPLUS (13) Ralls; US 6015681 2000 HCAPLUS (14) Wilkin; US 5066497 1991 HCAPLUS L80 ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2002 ACS 1998:650046 HCAPLUS AN DN 129:281005 Nutritional products with high fat, low carbohydrate and amino acid TΙ imbalance Pellico, Michael A. ΙN PΑ USA SO U.S., 8 pp. CODEN: USXXAM DT Patent LA English ICM A61K031-20 IC ICS A61K031-195 NCL 514558000 63-6 (Pharmaceuticals) Section cross-reference(s): 18 FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ______ _____ US 5817695 A 19981006 EP 925726 A1 19990630 US 1997-997837 19971224 US 1997-308062 19981002 EP 1998-308062 19981002 PT R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO PRAI US 1997-997837 19971224 A nutritional product is provided for cancer patients comprising, as per caloric requirement, a low concn. of carbohydrate, a high concn. of fat and an imbalance of amino acids wherein L-phenylalanine, L-tyrosine and L-methionine are present in the below normal concns. and L-leucine is present in substantial excess of normal concns. to suppress cancer growth and as an adjunct to conventional cancer therapies. For example, a product contained L-alanine 45, L-arginine.cntdot.HCl 60.5, L-aspartic acid 93.5, L-cystine 23, L-glutamic acid 339.5, glycine 52.5, L-histidine.cntdot.HCl 118, L-isoleucine 95, L-leucine 145.5, L-lysine.cntdot.HCl 118, L-methionine 47.5, L-phenylalanine 2, L-proline 177.5, L-serine 91, L-threonine 65, L-tryptophan 21.5, L-tyrosine 2250, L-valine 107, taurine 10, corn starch 100, sardine oil 915, lard 150, corn oil 500, cod liver oil 350, Alphacel nonnutritive bulk 1121, and ethoxiquin 1250 g. cancer nutrition high fat low carbohydrate ST

IT

Neoplasm

Nutrients

(nutritional products with high-fat and low-carbohydrate and imbalanced amino acid to suppress cancer growth)

IT Amino acids, biological studies

Carbohydrates, biological studies

Cod liver oil

Corn oil

Fats and Glyceridic oils, biological studies

Lard

RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nutritional products with high-fat and low-carbohydrate and imbalanced amino acid to suppress cancer growth)

IT Fatty acids, biological studies

RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(polyunsatd., n-3; nutritional products with high-fat and low-carbohydrate and imbalanced amino acid to suppress cancer growth)

IT Fats and Glyceridic oils, biological studies

RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sardine; nutritional products with high-fat and low-carbohydrate and imbalanced amino acid to suppress cancer growth)

56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological ΙT 56-84-8, L-Aspartic 56-45-1, L-Serine, biological studies acid, biological studies 56-86-0, L-Glutamic acid, biological studies 56-87-1, L-Lysine, biological studies 56-89-3, L-Cystine, biological 60-18-4, L-Tyrosine, biological studies 61-90-5, L-Leucine, 63-68-3, L-Methionine, biological studies 63 - 91 - 2, biological studies 72-18-4, L-Valine, biological studies Phenylalanine, biological studies 72-19-5, L-Threonine, biological studies 73-22-3, L-Tryptophan, 73-32-5, L-Isoleucine, biological studies 107-35-7, biological studies 147-85-3, L-Proline, biological studies 645-35-2, L-Histidine 657-27-2, L-Lysine hydrochloride 1119-34-2, L-Arginine hydrochloride 9005-25-8, Starch, biological studies hydrochloride RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nutritional products with high-fat and low-carbohydrate and imbalanced amino acid to suppress cancer growth)

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L80 ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2002 ACS
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AN 1995:874963 HCAPLUS

DN 123:265827

TI Stabilized enzymic dentifrice

IN Pellico, Michael A.

PA USA

SO U.S., 5 pp. Cont.-in-part of U.S. 5,336,494. CODEN: USXXAM

DT Patent

LA English

IC ICM A61K007-28

NCL 424094400

CC 62-7 (Essential Oils and Cosmetics)

FAN.CNT 2

| 2.2 | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| | | | | | |
| PI | US 5453284 | A | 19950926 | US 1994-283816 | 19940801 |
| | US 5336494 | Α | 19940809 | US 1993-10841 | 19930129 |
| DDAT | 119 1003-108/1 | | 19930129 | | |

AB Hydro-activated and/or oxygen-activated aq., enzymic, antimicrobial dentifrices are stabilized against enzymic activation prior to oral application of the dentifrice by incorporating a thickener into the dentifrice formulation to provide the formulation with an enzyme

immobilizing viscosity which inhibits enzymic action during processing and in the dentifrice package. An illustrative, thickened, enzymic dentifrice with this enhancement contains glucose oxidase, glucose, lactoperoxidase and K thiocyanate together with CM-cellulose in an amt. to provide the dentifrice with a viscosity of .gtoreq.800 cP. For example, a toothpaste contained water 30.0, glycerin 38.0, CM-cellulose 6.0, silica 15.0, Na methylcocoyl taurate 2.0, titania 8.0, lactoperoxidase (100 IU/mg) 0.0005, .beta.-D-glucose 1.0, glucose oxidase (100 IU/mg) 0.001, K thiocyanate 0.150 g and flavor q.s. The viscosity of this aq., enzymic toothpaste was 30,000 cP and the toothpaste had an enzymic shelf-life in excess of 2 yrs.

ST dentifrice enzymic system cellulose ether stabilizer

ΙT

(stabilizers for enzymic antimicrobial dentifrices)

ΙT Hexoses

Lactoferrins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(stabilizers for enzymic antimicrobial dentifrices)

333-20-0, Potassium thiocyanate 7681-11-0, Potassium iodide, biological studies 9001-37-0, Glucose oxidase 9001-63-2, Lysozyme 9003-99-0, Myeloperoxidase 9004-32-4, Sodium carboxymethyl cellulose 9005-25-8, Starch, biological studies 9005-25-8D, Starch, hydrogenated 9028-75-5, Hexose oxidase 9031-28-1, Iodide peroxidase 9055-15-6, Oxidoreductase 9055-20-3, Chloride peroxidase 11138-66-2, Xanthan gum 28905-12-6, .beta.-D-Glucose 37353-59-6, Hydroxymethyl cellulose RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(stabilizers for enzymic antimicrobial dentifrices)

7722-84-1P, Hydrogen peroxide, biological studies RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses) (stabilizers for enzymic antimicrobial dentifrices)

L80 ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2002 ACS

1994:587342 HCAPLUS ΑN

121:187342 DN

Pet chewable products with enzymic coating ΤI

Pellico, Michael A. ΙN

PΑ USA

U.S., 7 pp. SO

CODEN: USXXAM

DT Patent

LA English

ICM A61K037-50 IC

NCL 424094400

63-6 (Pharmaceuticals)

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| | | | | | |
| ΡI | US 5336494 | А | 19940809 | US 1993-10841 | 19930129 |
| | US 5453284 | Α | 19950926 | US 1994-283816 | 19940801 |
| PRAT | US 1993-10841 | | 19930129 | | |

An orally chewable, enzymically coated product is provided which, upon chewing, produces an anti-bacterial and bacteriostatic effect in the oral cavity by activation of an enzymic system contained within the coating. The enzymic surface coating is developed, in substantially dry form, from a thickened, aq. coating soln. having a viscosity from about 1,000 to about 50,000 cP and contg. oxidizable substrate and oxidoreductase enzymes specific to such substrate for producing hydrogen peroxide upon oral chewing of the coated product and optionally, but advantageously, further contq. peroxidatic peroxidase and an alkali metal salt of an oxygen accepting anion for interacting with hydrogen peroxide to produce oxidized anionic bacterial inhibitor. An illustrative enzymic system for this

purpose contains glucose, glucose oxidase, potassium thiocyanate and lactoperoxidase. The thickened enzymic soln. suppresses the enzymic reaction during the prepn. and application of the soln. to the surface of the chewable product.

ST chewable compn enzymic coating pet

IT Bactericides, Disinfectants, and Antiseptics

Carrageen

Coating materials

Pharmaceutical dosage forms

(chewable bactericidal products with enzymic coating for pets)

IT Enzymes

Lactoferrins

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(chewable bactericidal products with enzymic coating for pets)

IT Gelatins, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (chewable bactericidal products with enzymic coating for pets)

IT Animal

(pet, chewable bactericidal products with enzymic coating for pets)

1T 7722-84-1, Hydrogen peroxide, biological studies 9001-37-0, Glucose oxidase 9001-63-2, Lysozyme 9003-99-0, Peroxidase 9028-75-5, Hexose oxidase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(chewable bactericidal products with enzymic coating for pets)

IT 28905-12-6, .beta.-D-Glucose 93780-23-5, Hexose
RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(chewable bactericidal products with enzymic coating for pets)

IT 333-20-0, Potassium thiocyanate 9002-18-0, Agar 9002-89-5, Polyvinyl alcohol 9004-32-4 9005-25-8, Starch, biological studies 16887-00-6, Chloride, biological studies 20461-54-5, Iodide, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (chewable bactericidal products with enzymic coating for pets)

L80 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2002 ACS

AN 1992:113357 HCAPLUS

DN 116:113357

TI Foamable fluoride dental tray materials

IN Pellico, Michael A.

PA USA

SO U.S., 6 pp. CODEN: USXXAM

DT Patent

LA English

IC ICM A61L009-04

ICS A61K007-18; A61C005-00

NCL 424045000

CC 62-7 (Essential Oils and Cosmetics)

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| | | | | | |
| PI | US ·5071637 | А | 19911210 | US 1989-418251 | 19891006 |
| | US 5073363 | A | 19911217 | US 1990-465374 | 19900116 |
| PRAI | US 1989-418251 | | 19891006 | | |

AB A foamable F compn. (pH 3.0-4.5) usable as a tray material in dental therapy, comprises a fluoride 0.5-5.0, a nonionic foaming agent 2.5-11.0, HF 0.05-0.20, and water to 100% by wt. A formulation contained NaF 4.71, H3PO4 4.50, HF 0.23, Fluronic f108 5.25, Na saccharin 0.27, flavor 0.5, and water 184.00 parts by wt.

```
ST
     foamable fluoride dental tray
IT
    Dental materials and appliances
        (trays, foamable fluoride compns.)
IT
     7631-97-2
                7664-39-3, Hydrofluoric acid, miscellaneous 7681-49-4,
     Sodium fluoride, miscellaneous
    RL: BIOL (Biological study)
        (foamable dental tray material contg.)
    106392-12-5
TΥ
    RL: BIOL (Biological study)
        (foamable fluoride dental tray material contg.)
L80 ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2002 ACS
    1992:91171 HCAPLUS
AN
DN
    116:91171
    Dental foamable fluoride gels
TI
IN
    Pellico, Michael A.
PA
    U.S., 5 pp. Cont.-in-part of U.S. 5,071,637.
SO
    CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K007-16
IC
    ICS A61K007-18
NCL
   424049000
CC
    62-7 (Essential Oils and Cosmetics)
FAN.CNT 2
    PATENT NO.
                     KIND DATE
                                           APPLICATION NO. DATE
                     ____
                                           -----
    ______
    US 5073363 A 19911217
US 5071637 A 19911210
                                           US 1990-465374
                                                             19900116
ΡI
                     A 19911210
                                           US 1989-418251
                                                             19891006
PRAI US 1989-418251
                           19891006
    An acidified and foamable fluoride gel comprises a gelling agent, a
     foaming agent, an acidifying agent, and a water-sol. fluoride. The gel is
    dispensed onto a toothbrush for application to the teeth to be treated to
    thereby effect fluoride uptake by the dental enamel. The gel provides the
     same fluoride uptake as a tray fluoride gel, but this result is achieved
    by a foamable gel with substantially less fluoride than that which is
    present in a tray fluoride. Thus, a gel contained NaF 2.4, Pluronic F108
     1.0, xanthan gum 2.0, hydrofluoric acid 0.5, glycerol 21.3, Na saccharin
     0.1, phosphoric acid (85%) 3.0, flavor and color 0.4, and water 69.3
    parts.
    dental fluoride gel surfactant
ST
IT
    Gums and Mucilages
     Surfactants
        (dental fluoride foamable gels contg.)
ΙT
    Dentifrices
        (fluoride foamable gels as)
     Fatty acids, esters
IT
    RL: BIOL (Biological study)
        (esters, with sucrose, dental fluoride foamable gels contq.)
IT
    Amines, oxides
    RL: BIOL (Biological study)
        (N-oxides, dental fluoride foamable gels contg.)
    57-50-1D, Sucrose, fatty acid esters 137-20-2, Igepon T-33 7664-38-2, Phosphoric acid, biological studies 7664-39-3, Hydrofluoric acid,
IT
    biological studies 9016-45-9, Ethoxylated nonylphenol 11138-66-2,
    Xanthan gum 37318-31-3, Sucrose stearate 103424-63-1D, N-cocoacyl
              106392-12-5, Pluronic F108
     derivs.
     RL: BIOL (Biological study)
        (dental fluoride foamable gels contg.)
     7681-49-4, Sodium fluoride, biological studies
IT
     RL: BIOL (Biological study)
        (dental foamable gels of)
```

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ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2002 ACS
L80
ΑN
     1989:179298 HCAPLUS
DN
     110:179298
     Foamable fluoride compositions for treating teeth
ΤI
     Pellico, Michael A.
IN
PΑ
     USA
SO
     U.S., 5 pp.
     CODEN: USXXAM
DΤ
     Patent
LA
     English
TC.
     ICM A61K007-18
NCL
    433217100
     62-7 (Essential Oils and Cosmetics)
CC
FAN.CNT 1
                                          APPLICATION NO.
     PATENT NO.
                     KIND DATE
                                                            DATE
                                           -----
     US 4770634 A
                            19880913
                                           US 1986-872851
                                                            19860611
PΤ
     Foamable fluoride compns., for use in fluoride-tray dental treatments,
AB
     contain water, dental fluoride, foaming agent, foam-wall thickener, and
     acidifying agent. A foamable compn. contg. NaF 3.1, sucrose distearate
     6.0, glycerol 2.0, 85% {\tt H3PO4} 4.0, cherry flavor 1.0, and water to 100 wt.%
     was added to an open-mouth aerosol container and the final aerosol
     dispensing package was completed and pressurized in the conventional
     manner. Bovine teeth treated in vitro with this foam showed essentially
     the same F- uptake as teeth treated with Nupro APF Gel, although the amt.
     of F- in a dental tray filled with F- foam is <1/2 the amt. of F- in a
     tray filled with gel. Thus, the F- exposure is significantly reduced
     despite equal effectiveness, resulting in markedly reduced exposure to F-
     toxicity in fluoride-tray treatment.
     fluoride foam dental treatment; dental fluoride tray treatment foam
ST
TΤ
     Quaternary ammonium compounds, biological studies
     RL: BIOL (Biological study)
        (fluorides, dental foams contg., for fluoride-tray treatment)
IT
     Dentifrices
        (foams, fluoride-contg., for fluoride-tray treatment)
     77-92-9, Citric acid, biological studies 7664-38-2, Phosphoric acid,
IT
     biological studies
     RL: BIOL (Biological study)
        (acidifying agent, for dental fluoride foams)
     1333-83-1, Sodium fluoride (Na(HF2)) 7664-38-2D, Phosphoric acid,
IT
                         7783-47-3, Stannous fluoride 10163-15-2, Sodium
     fluoroalkyl esters
                         16984-48-8, Fluoride, biological studies
     monofluorophosphate
     108335-38-2
     RL: BIOL (Biological study)
        (dental foam contg., for fluoride-tray treatment)
     50-70-4, Sorbitol, biological studies 56-81-5, Glycerol, biological
TT
               9005-25-8D, Starch, hydrolyzates, hydrogenated
     studies
     RL: BIOL (Biological study)
        (foam-wall thickener, for dental fluoride foams)
                                                           25168-73-4, Sucrose
IT
     151-21-3, Sodium lauryl sulfate, biological studies
                   27195-16-0, Sucrose distearate
     monostearate
     RL: BIOL (Biological study)
        (foaming agent, for dental fluoride foams)
    ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2002 ACS
L80
     1987:72965 HCAPLUS
AN
DN
     106:72965
     Powdered alginate formulations containing polyacrylamide as dental
TΙ
     impression materials
     Pellico, Michael A.
ΙN
     Laclede Professional Products, Inc., USA
PA
SO
     Eur. Pat. Appl., 19 pp.
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CODEN: EPXXDW
DT
     Patent
LA
     English
IC
     ICM A61K006-10
     ICS C08L005-04
ICI C08L005-04, C08L033-26
     63-7 (Pharmaceuticals)
CC
FAN.CNT 1
                   KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
     EP 198131 A1 19861022 EP 1985-302541
                                                             19850411
PΤ
     R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
BR 8502117 A 19861209 BR 1985-2
EP 1985-302541 19850411
                                      BR 1985-2117 19850503
PRAI EP 1985-302541
     Powd. alginate compns. formulated with a polymer comprising polyacrylamide
     have enhanced smoothness characteristics upon admixing with water to
     obtain orally settable, dental impression material. A formulation
     contains Na alginate 8.5, CaSO4.cntdot.2H2O 10.0, Na4P2O7 1.0, K Ti
     fluoride 1.0, MgO 4, color 0.5, diatomaceous earth 75, and Cynamer P-250
     (polyacrylamide) 0.5 parts by wt. The aq. mix of this formulation was
     smooth. Use of conventional gum additives, instead of polyacrylamide,
     failed to impart smoothness.
     dental impression alginate polyacrylamide
ST
     Dental materials and appliances
IT
        (impressions, alginate- and polyacrylamide-contg., for improved
        smoothness)
ΙT
     9003-05-8, Polyacrylamide
     RL: BIOL (Biological study)
        (dental impressions contg. alginate and)
     9005-36-1, Potassium alginate 9005-38-3, Sodium alginate
IT
     RL: BIOL (Biological study)
        (dental impressions contg. polyacrylamide and)
L80 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2002 ACS
     1987:55968 HCAPLUS
AN
     106:55968
DN
     Dental impression composition containing finely sized polyacrylamide
ΤI
IN
     Pellico, Michael A.
     Laclede Professional Products, Inc., USA
PA
SO
     U.S., 4 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
     ICM A61K006-10
IC
NCL 523109000
CC
     63-7 (Pharmaceuticals)
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
US 4626558 A 19861202 US 1985-785985 19851010
PΤ
     Powd. alginate compns. contg. polyacrylamide at 0.01-0.25~\mathrm{wt.\$} and having
AB
     a particle size <300 mesh have enhanced smoothness characteristics,
     without visible signs of undissolved polymer, upon admixing with water to
     obtain orally settable, dental impression material. Thus, a smooth dental
     impression material contained diatomaceous earth 66.08, Na alginate 11.00,
     CaSO4.2H2O 9.00, MgO 4.5, TiK2F6 3.5, K4P2O7 1.5, fructose 3.5, and
     Cyanamer P-250 (polyacrylamide) 0.02 parts by wt.
ST
     dental impression polyacrylamide
     Dental materials and appliances
IT
        (impressions, polyacrylamide-contg. compns.)
IT
     9003-05-8, Polyacrylamide
     RL: BIOL (Biological study)
        (dental impression compn. contg.)
```

7320-34-5, Potassium pyrophosphate 7601-54-9, Sodium phosphate ΙT 7758-29-4, Sodium tripolyphosphate 7778-18-9, Calcium 7722-88-5 sulfate 7778-53-2, Potassium phosphate 9005-36-1, Potassium alginate 9005-38-3, Sodium alginate 13845-36-8, Potassium tripolyphosphate RL: BIOL (Biological study) (dental impression compn. contg. polyacrylamide and) ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2002 ACS L80 1986:213322 HCAPLUS ΑN DN 104:213322 Enzymic bandages and pads TI Montgomery, Robert E.; Pellico, Michael A. IN Laclede Professional Products, Inc., USA PA SO U.S., 6 pp. CODEN: USXXAM DT Patent LA English ICM A61K037-48 ICNCL 424094000 63-7 (Pharmaceuticals) CC FAN.CNT 1 APPLICATION NO. DATE KIND DATE PATENT NO. ____ -----______ US 1984-618071 Α US 4576817 19860318 19840607 PΙ 19890808 CA 1986-503881 19860312 CA 1258228 A1 A1 19870916 EP 236610 EP 1986-301800 19860313 R: DE, FR, GB, IT, SE 19840607 PRAI US 1984-618071 Absorbent materials, e.g. bandages and pads, for body contact applications contain a serum-activated oxidoreductase for producing H2O2 upon contact of the enzyme with blood serum. An illustrative serum-activated oxidoreductase is glucose oxidase, with the corresponding substrate in serum being glucose. These bandages, etc. have a bacteriostatic action. enzyme bandage hydrogen peroxide; oxidoreductase bandage hydrogen STperoxide; glucose oxidase bandage serum ΙT Surgical dressings and goods (bandages, bacteriostatic, contg. oxidoreductase and peroxidase) IT 3416-24-8 7512-17-6 RL: BIOL (Biological study) (bandages contg. oxidoreductase and peroxidase and) 16887-00-6, biological studies TΤ RL: BIOL (Biological study) (bandages contg. oxidoreductase and peroxidase and, for in situ formation of hypochlorite) 20461-54-5, biological studies ΙT RL: BIOL (Biological study) (bandages contg. oxidoreductase and peroxidase and, for in situ formation of hypoiodite) IT333-20-0 RL: BIOL (Biological study) (bandages contg. oxidoreductase and peroxidase and, for in situ formation of hypothiocyanate) 9003-99-0 TT RL: BIOL (Biological study) (bandages contg. oxidoreductase and, for in situ formation of oxidized anionic bacterial inhibitor) 9055-15-6 TT RL: DEV (Device component use); USES (Uses) (bandages contg., for in situ formation of hydrogen peroxide from contact with blood serum components) 9001-37-0 IT RL: DEV (Device component use); USES (Uses)

(bandages contg., for in situ formation of hydrogen peroxide on contact

with glucose of blood serum) IΤ 9031-79-2 RL: DEV (Device component use); USES (Uses) (bandages contg., for in situ formation of hydrogen peroxide on contact with oxalate of blood serum) IT 7722-84-1, biological studies RL: FORM (Formation, nonpreparative) (formation of, in situ, by oxidoreductase in bandages on contact with blood serum components) 9001-05-2 IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors, bandages contg. peroxidase and) L80 ANSWER 11 OF 24 HCAPLUS COPYRIGHT 2002 ACS 1986:213034 HCAPLUS AN DN 104:213034 Di-enzymatic chewable dentifrice TIPellico, Michael A.; Montgomery, Robert E. IN Laclede Professional Products, Inc., USA PA U.S., 7 pp. Cont.-in-part of U.S. 4,537,764. SO CODEN: USXXAM DΤ Patent LA English ICM A61K009-68 IC ICS A61K007-28; A61K037-50 NCL 424048000 CC 62-7 (Essential Oils and Cosmetics) FAN.CNT 4 KIND DATE APPLICATION NO. DATE PATENT NO. _____ ______ ____ US 4564519 A 19860114 US 1983-559474 19831208 PΙ US 1981-292633 A 19860325 19810813 US 4578265 · 19850827 Α US 1983-501383 19830606 US 4537764 A2 19850306 EP 1984-302162 19840329 EP 133736 EP 133736 A3 19860205 B1 19891213 EP 133736 R: CH, DE, FR, GB, IT, LI, NL JP 59231011 A2 19841225 JP 1984-105635 19840523 B4 19920506 JP 04025924 PRAI US 1981-292633 19810813 US 1983-501383 19830606 US 1983-559474 19831208 A chewable dentifrice having antibacterial activity contains an oxidizable AB substrate 0.015-0.6 mmol, an oxidoreductase 0.5-500 IU (for H2O2 formation on chewing), a thiocyanate salt 0.001-0.01 mmol, and lactoperoxidase 0.01-50 IU such that the lactoperoxidase is present .gtoreq.2% (IU) of the oxidoreductase. The lactoperoxidase is present to form an antibacterial hypothiocyanate from the H2O2 and thiocyanate. Thus, a compn. contg. cryst. sorbitol 75, gum base 23, color 0.5, flavor 1.0, .beta.-D-glucose 0.5, K thiocyanate 0.01, glucose oxidase (100,000 IU/g) 0.006, and lactoperoxidase (100,000 IU/g) 0.0006 g was made into 3 g sticks. When chewed, this compn. had 96-99% effectiveness as a bacterial inhibitor. ST enzyme dentifrice chewable antiseptic; gum chewing dentifrice enzyme; oxidoreductase lactoperoxidase chewable dentifrice; hypothiocyanate dentifrice Thiocyanates IT RL: BIOL (Biological study) (dentifrice contg. lactoperoxidase and in-situ generated hydrogen

(chewing gums, bactericidal, contg. enzymes for hypothiocyanate in-situ

generation)
IT Amino acids, biological studies

Dentifrices

IT

peroxide and, bactericidal chewable)

```
RL: BIOL (Biological study)
        (D-, dentifrice contg. D-amino acid oxidase and, bactericidal chewable)
     62-49-7
IT
     RL: BIOL (Biological study)
        (dentifrice contg. choline oxidase and, bactericidal chewable)
     59-23-4, biological studies
IT
     RL: BIOL (Biological study)
        (dentifrice contg. galactose oxidase and, bactericidal chewable)
     492-61-5
IT
     RL: BIOL (Biological study)
        (dentifrice contg. glucose oxidase and, bactericidal chewable)
     56-40-6, biological studies
IT
     RL: BIOL (Biological study)
        (dentifrice contg. glycine oxidase and, bactericidal chewable)
IT
     333-20-0
                540-72-7
                           1762-95-4
     RL: BIOL (Biological study)
        (dentifrice contg. lactoperoxidase and in-situ generated hydrogen
        peroxide and, bactericidal chewable)
                                         9028-67-5
                                                     9028-79-9
                             9002-12-4
                                                                 37255-41-7
     9000-88-8
                 9001-37-0
IT
     39307-16-9
     RL: BIOL (Biological study)
        (dentifrice contg. lactoperoxidase and, bactericidal chewable)
IT
                 7512-17-6
     RL: BIOL (Biological study)
        (dentifrice contg. oxidoreductase and lactoperoxidase and, bactericidal
        chewable)
     134-03-2
                15421-15-5
                             64296-33-9
IT
     RL: BIOL (Biological study)
        (dentifrice contg. oxidoreductase and, as catalase inhibitor)
IT
     9003-99-0
     RL: BIOL (Biological study)
        (dentifrice contq. thiocyanate and in-situ generated hydrogen peroxide
        and, bactericidal chewable)
     69-93-2, uses and miscellaneous
IT
     RL: USES (Uses)
        (dentifrice contg. urate oxidase and, bactericidal chewable)
     319-78-8
                338-69-2 344-25-2
                                     348-67-4
                                                640-68-6
ΙT
     RL: BIOL (Biological study)
        (dentifrice contg. D-amino acid oxidase and, bactericidal chewable)
IT
     6893-26-1
     RL: BIOL (Biological study)
        (dentifrice contg. D-glutamate oxidase and, bactericidal chewable)
IT
     7722-84-1P, preparation
     RL: FORM (Formation, nonpreparative); PREP (Preparation)
        (formation of, in-situ, in dentifrice contg. thiocycanate and
        lactoperoxidase)
L80 ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2002 ACS
AN
     1986:39537 HCAPLUS
     104:39537
DN
     Stabilized enzymic dentifrice containing .beta.-D-glucose and glucose
TI
     Pellico, Michael A.; Montgomery, Robert E.
IN
     Laclede Professional Products, Inc., USA
PA
     U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 292,633, abandoned.
SO
     CODEN: USXXAM
DT
     Patent
LA
     English
     ICM A61K007-28
IC
     ICS A61K037-48; A61K037-50
    424050000
NCL
     62-7 (Essential Oils and Cosmetics)
FAN.CNT 4
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KIND DATE
                                         APPLICATION NO.
    PATENT NO.
                                                          DATE
                    ____
    -----
    US 4537764 A
                          19850827
                                         US 1983-501383
                                                          19830606
PΤ
   US 4578265
                    Α
                          19860325
                                         US 1981-292633
                                                          19810813
                    A
                          19860114
    US 4564519
                                         US 1983-559474
                                                          19831208
                    A2
    EP 133736
                                         EP 1984-302162
                          19850306
                                                          19840329
    EP 133736 A3 19860205
EP 133736 B1 19891213
        R: CH, DE, FR, GB, IT, LI, NL
    JP 59231011 A2 19841225
                                         JP 1984-105635
                                                          19840523
    JP 04025924
JP 62213754
                     B4
                          19920506
                    A2 19870919
                                         JP 1986-58018
                                                          19860314
PRAI US 1981-292633
                          19810813
                          19830606
    US 1983-501383
    US 1983-559474
                          19831208
    An enzymic dentifrice for producing H2O2 upon oral application, and
AB
    limiting any water present in the dentifrice to no more than 10 wt.% of
    the dentifrice wt. to stabilize the dentifrice against prodn. of H2O2
    prior to application, comprises .beta.-D-glucose at 0.015-0.6 mmol and
    glucose oxidase at 0.5-500 IU. Thus, a formulation contained glycerin
     (99%) 50, Co pyrophosphate 40, NaHCO3 5, color 0.5, flavor 0.5,
     .beta.-D-glucose (0.03 mmol) 0.5, glucose oxidase (100,000 IU/g) 0.1,
    Triton X-100 0.4, and H2O 3 g. The dentifrice has a 400% improvement in
    package stability compared to a com. formulation.
    dentifrice antiseptic qlucose glucose oxidase; enzymic dentifrice glucose
ST
ΙT
    Dentifrices
       (enzymic, contg. glucose and glucose oxidase)
    9001-37-0
TT
    RL: BIOL (Biological study)
        (dentifrice contq. glucose and)
    28905-12-6
TΤ
    RL: BIOL (Biological study)
        (dentifrice contg. glucose oxidase and)
L80 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2002 ACS
AN
    1985:492903 HCAPLUS
DN
    103:92903
ΤI
    Dental impression composition
    Pellico, Michael A.
IN
    Laclede Professional Products, Inc., USA
PA
    U.S., 5 pp. Cont.-in-part of U.S. 4,468,484.
SO
    CODEN: USXXAM
DT
    Patent
LA
    English
    ICM A61K006-08
IC
NCL
    523109000
CC
    63-7 (Pharmaceuticals)
FAN.CNT 4
    PATENT NO.
                    KIND DATE
                                         APPLICATION NO.
                                         ______
                          -----
                           19850507
                                         US 1983-550809
                                                          19831114
    US 4515913 A
PT
               A
    US 4381947
                    А
                          19830503
                                         US 1982-378917
                                                          19820517
                                         US 1983-490294
                                                          19830502
    US 4468484
                          19840828
PRAI US 1980-220303
                           19801229
    US 1982-378917
                          19820517
    US 1983-490294
                          19830502
    A powd. alginate dental impression compn. contains 0.5-6.0% of
```

AB A powd. alginate dental impression compn. contains 0.5-6.0% of polyacrylamide [9003-05-8] which provides a smooth admixt. of the powd. compn. with water during its prepn. The polymer can have a mol. wt. of 200,000 to 6,000,000 and a varying carboxyl content. The compn. contains in addn. 6-12% Ca sulfate and 0.6-1.2% phosphate reaction retarder. A powd. compn. was prepd. from K alginate [9005-36-1] 8.5, CaSo4.2H2O 10.0, tetra-K pyrophosphate 1.0, TiK2F6 1.0, MgO 4.0, color 0.5, diatomaceous

earth 74.0, Cyanamer P-250 1.0 and Polyox WSN-10 0.3% by wt. The addn. of the polyacrylamide to the compn. not contg. it improved the mixing characteristics of the aq. mix in that the aq. mix did not appear grainy or form lumps.

ST polyacrylamide dental impression alginate; polyphosphate dental impression alginate; phosphate dental impression alginate; calcium sulfate dental impression alginate

IT Dental materials and fillings

(impressions, alginate, polyacrylamide in)

IT 9003-05-8

RL: BIOL (Biological study)

(alginate dental impressions contg.)

IT 7320-34-5 7601-54-9 7722-88-5 7758-29-4 7778-18-9

RL: BIOL (Biological study)

(alginate dental impressions contg. polyacrylamide and)

IT 9005-36-1 9005-38-3

RL: BIOL (Biological study)

(dental impressions contg. polyacrylamide and)

L80 ANSWER 14 OF 24 HCAPLUS COPYRIGHT 2002 ACS

AN 1984:577576 HCAPLUS

DN 101:177576

TI Settable alignate compositions containing polyacrylamide

IN Pellico, Michael A.

PA Laclede Professional Products, Inc., USA

SO U.S., 7 pp. Cont.-in-part of U.S. 4,381,947. CODEN: USXXAM

DT Patent

LA English

IC A61K006-08

NCL 523109000

CC 63-7 (Pharmaceuticals)

FAN.CNT 4

| FAN. CNT 4 | | | | | | | | | |
|------------|------------|----------------|-----|-----|--------|----------|----|----------------|----------|
| | PATENT NO. | | | | KIND | DATE | | PPLICATION NO. | DATE |
| | | | | | · | | | | |
| PΙ | US | 4468 | 484 | | A | 19840828 | US | 1983-490294 | 19830502 |
| | US | 4381 | 947 | | Α | 19830503 | US | 3 1982-378917 | 19820517 |
| | EP | 1268 | 24 | | A2 | 19841205 | E | 1983-305916 | 19830929 |
| | EP | 126824 | | | А3 | 19850911 | | | |
| | | R: | DE, | FR, | GB, IT | , SE | | | |
| | US | US 4515913 | | | Α | 19850507 | US | 1983-550809 | 19831114 |
| | JΡ | JP 59204113 | | | A2 | 19841119 | JE | 1984-15958 | 19840130 |
| PRAI | US | S 1980-220303 | | | | 19801229 | | | |
| | US | JS 1982-378917 | | | | 19820517 | | | |
| | US | US 1983-490294 | | | | 19830502 | | | |

- AB An oral, settable dental compn., esp. for impressions, is prepd. by interaction of a component A contg. an alkali metal alginate in an aq. paste with component B contg. CaSO4 and a reaction rate retarder such as tetra-Na pyrophosphate in a plasticizer paste, free of unbound water. The incorporation of Cyanamer P-250 [9003-05-8] into the blended components gives a nongrainy smooth texture. Thus, component A was prepd. from Na alginate [9005-38-3] 11, diatomaceous earth 84, K pyrophosphate 1, dextrose 2, diethylene glycol 2, and water 150 parts by wt., preservative and flavor traces. Component B was prepd. from MgO 5, CaSO4 45, K pyrophosphate 4, glycerol [56-81-5] 35, silicone oil 5, and diatomaceous earth 6 parts by wt. The premix shelf-life was excellent, ease of mixing very easy, setting time was 3 min and moisture loss was 0.4% by wt. in 30 min.
- ST dental impression alginate metal salt; plasticizer alginate dental; polyacrylamide alginate dental
- IT Oil sand

(dental impression compns. contg. alginate)

IT Plasticizers

Siloxanes and Silicones, biological studies RL: BIOL (Biological study) (dental impression compns. contq. alginate and polyacrylamide and) IT Oils RL: BIOL (Biological study) (vegetable, dental impression compns. contg. alginate and) Dental materials and fillings IT (impressions, alginates and polyacrylamide for) 7778-18-9 9003-05-8 TΤ RL: BIOL (Biological study) (dental impression compns. contg. alginate and) 9005-36-1 9005-38-3 TΤ RL: BIOL (Biological study) (dental impression compns. contg. polyacrylamide and) IT 56-81-5, biological studies 57-55-6, biological studies 143-28-2 7601-54-9 7720-78-7 7722-88-5 7733-02-0 13847-74-0 7320-34-5 25322-68-3 RL: BIOL (Biological study) (dental settable compns. contq. alginate and polyacrylamide and) ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2002 ACS L80 1984:536819 HCAPLUS AN DN 101:136819 TI Dienzymic dentifrice Pellico, Michael A.; Montgomery, Robert E. IN Laclede Professional Products, Inc., USA PA SO Can., 26 pp. CODEN: CAXXA4 DTPatent English LA A61K007-28 IC62-7 (Essential Oils and Cosmetics) CC FAN.CNT 4 APPLICATION NO. KIND DATE DATE PATENT NO. ----~~---------CA 1167381 A1 19840515 CA 1981-392173 19811214 PΙ 19860325 US 4578265 Α US 1981-292633 19810813 JP 62213754 A2 19870919 JP 1986-58018 19860314 PRAI US 1981-292633 19810813 A dienzymic dentifrice compn. contains 0.015-0.6 mmol oxidizable substrate such as .beta.-D-glucose [492-61-5] and 0.5-500 IU of an oxidoreductase enzyme specific to each substrate for H2O2 prodn. on oral application of the dentifrice. In addn., the compn. contains 0.0001-0.01 mmol of a thiocyanate salt and 0.05-20 IU lactoperoxidase [9003-99-0] for interaction with H2O2 to produce a hypothiocyanate bacterial inhibitor. Thus, a toothpaste was prepd. contg. glycerin 48, propylene glycol 5, NaHCO3 1.9, Silcron G-910 35, water 2, dioctyl Na sulfosuccinate 2, glucose oxidase [9001-37-0] 0.125 (12,500 IU), .beta.-D-glucose 5, lactoperoxidase (100,000 IU/g) 0.0001, KCNS 0.01, color 0.5 and flavor 0.5 The effectiveness of the dentifrice was demonstrated in humans. enzymic dentifrice; oxidizable enzyme substrate dentifrice; thiocyanate STenzyme dentifrice IT Enzymes RL: BIOL (Biological study) (dentifrices contg. oxidizable substrates and) IT Dentifrices (enzymes and oxidizable substrates for) ΙT Amino acids, biological studies RL: BIOL (Biological study) (D-, dienzymic dentifrices contg.) 344-25-2 348-67-4 492-61-5 640-68-6 673-06-3 IT 338-69-2 56-40-6, uses and miscellaneous 59-23-4, biological studies 6893-26-1 62-49-7 69-93-2, biological studies

rose - 10 / 045184 RL: BIOL (Biological study) (dienzymic dentifrices contg.) ΙT 333-20-0 540-72-7 1762-95-4 3416-24-8 7512-17-6 9001-37-0 9028-79-9 9002-12-4 9003-99-0 9028-67-5 37255-41-7 39307-16-9 RL: BIOL (Biological study) (dienzymic dentifrices contg. oxidizable substrates and) ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2002 ACS L80 1983:428057 HCAPLUS AN DN 99:28057 TISettable alginate dental compositions IN Pellico, Michael A. PA Laclede Professional Products, Inc., USA U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 220,303, abandoned. SO CODEN: USXXAM DT Patent LA English C08L005-04 IC 106038500D NCL 63-7 (Pharmaceuticals) CC FAN.CNT 4 APPLICATION NO. DATE PATENT NO. KIND DATE _____ ____ Α US 4381947 19830503 US 1982-378917 19820517 PΤ A1 19830317 DE 1981-3135567 19810908 DE 3135567 US 4468484 A 19840828 US 1983-490294 19830502 US 4515913 19850507 US 1983-550809 19831114 Α B1 19860724 AU 1985-40974 19850410 AU 553718 19801229 PRAI US 1980-220303 US 1982-378917 19820517 US 1983-490294 19830502 An oral, settable, dental compn. is prepd. by mixing component A contg. an AB alkali metal alginate in an aq. paste with component B contg. a divalent metal salt such as CaSO4 and a reaction rate retarder such as tetra-Na pyrophosphate in a fluid plasticizer paste substantially free from unbound The rate retarder moderates the rate of reaction between the water. divalent metal salt and the alginate. Thus, component A was prepd. contg. Na alginate [9005-38-3] 11, diatomaceous earth 84, K pyrophosphate 1, dextrose 2, diethylene glycol [111-46-6] 2, and water 150 parts, preservative and flavor trace amts. Component B was prepd. contg. MgO 5, CaSO4 45, K pyrophosphate 4, glycerol [56-81-5] 35, silicone oil 5 and diatomaceous earth 6 parts by wt. Components A and B were mixed and the resulting mixt. evaluated for set time and moisture loss at 72.degree.F. The shelf-life was excellent, setting time was 3 min and moisture loss dental impression alginate; metal salt alginate dental impression; plasticizer alginate dental impression; phosphate alginate dental impression Fatty acids, compounds TΤ RL: BIOL (Biological study)

ST

(salts, settable dental alginate impression compns. contg.)

Silicates, biological studies TΨ

Siloxanes and Silicones, biological studies

RL: BIOL (Biological study)

(settable dental alginate impression compns. contg.)

Oils IT

RL: BIOL (Biological study)

(vegetable, settable dental alginate impression compns. contg.)

IT Dental materials and fillings

(impressions, alginates and divalent metal salts and rate retarders for)

IT 56-81-5, biological studies 57-55-6, biological studies 111-46-6, biological studies 142-17-6 143-28-2 1309-48-4, biological studies

2452-01-9 2980-59-8 1314-13-2, biological studies 7320-34-5 7601-54-9 7720-78-7 7722-88-5 7733-02-0 7778-18-9 RL: BIOL (Biological study) (settable dental alginate impression compns. contg.) IT 9005-36-1 9005-38-3 RL: BIOL (Biological study) (settable dental impression compns. contg. divalent metal salts and rate retarders and) L80 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2002 ACS AN 1982:533619 HCAPLUS 97:133619 DN Settable alginate compositions ΤI ΙN Pellico, Michael PA Laclede Professional Products, Inc., USA SO Brit. UK Pat. Appl., 9 pp. CODEN: BAXXDU DT Patent LA English IC C08L005-04 CC 63-7 (Pharmaceuticals) FAN.CNT 4 APPLICATION NO. KIND DATE DATE PATENT NO. ----_____ ______ GB 2090272 Α 19820707 GB 1981-28730 19810923 ΡI B2 19840502 GB 2090272 DE 1981-3135567 19810908 DE 3135567 A1 19830317 B1 19860724 AU 1985-40974 19850410 AU 553718 PRAI US 1980-220303 19801229 Oral settable dental compns. are prepd. by the interaction of component A contg. alkali metal alginate in an aq. paste with component B contg. a divalent metal salt such as CaSO4 and a reaction rate retarder such as tetra-Na pyrophosphate in a plasticizer paste. The gel strength of the alginate impression can be enhanced by incorporating a metal oxide such as ZnO, MgO or mixts. of the oxides into the divalent metal salt component. Thus, component A compn. consisted of Na alginate [9005-38-3] 11, diatomaceous earth 84, K pyrophosphate 1, dextrose 2, diethylene glycol 2, water 150 parts (by wt.), preservative trace, and flavor trace and component B consisted of MgO 5, CaSO4 45, K pyrophosphate 4, glycerol 35, silicone oil 5, and diatomaceous earth 6 parts by wt. The 2 components were mixed using 4 vols. of A and 1 vol. of B. The setting time of the compn. was 3 min and moisture loss in 30 min was 0.4% (by wt.). dental impression setting alginate sulfate; pyrophosphate dental ST impression setting; phosphate dental impression setting ΙT Dental materials and fillings (impressions, settable, alginates and phosphates and sulfates for) 1309-48-4, biological studies 1314-13-2, biological studies IT RL: BIOL (Biological study) (dental setting compn. contg. alginates and phosphates and sulfates and) IT7778-18-9 RL: BIOL (Biological study) (dental setting compns. contg. alginates and phosphates and) IT 7720-78-7 7733-02-0 RL: BIOL (Biological study) (dental setting compns. contg. alginates and phosphates in) 7722-88-5 IT 7320-34-5 7601-54-9 RL: BIOL (Biological study) (dental setting compns. contg. alginates and sulfates and) IT9005-36-1 9005-38-3 RL: BIOL (Biological study) (dental setting compns. contg. sulfates and phosphates and)

```
L80 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2002 ACS
AN
     1981:609720 HCAPLUS
DN
     95:209720
TI
     Agar gel topical dressing
IN
     Pellico, Michael A.
     Laclede Professional Products, Inc., USA
PA
SO
     U.S., 5 pp.
     CODEN: USXXAM
DT
     Patent
LA
    English
    A01N031-00; A61K031-70
IC
NCL 424180000
     63-7 (Pharmaceuticals)
CC
FAN.CNT 1
     PATENT NO.
                   KIND DATE
                                           APPLICATION NO. DATE
PI US 4291025 A 19810922 US 1980-139500 19800411
JP 58035105 A2 19830301 JP 1981-134408 19810826
PRAI US 1980-139500 19800411
AB An agar [9002-18 01 1980041]
     An agar [9002-18-0] gel topical dressing for coating burns or other skin
     impairments is prepd. by heating and agitating a mixt. of agar, diethylene
     glycol [111-46-6] and H2O to solubilize the agar. The resulting soln. is
     cooled to its gelation temp., and converted to a thermally reversible gel.
     The dressing has a gelation temp. of 24-49.degree.. A gel comprising agar
     5, H2O 45, and diethylene glycol 50 wt.% had a gelation temp. of
     40.6.degree. compared to 51.7.degree. for a similar gel with dipropylene
     glycol instead of diethylene glycol. Tests in rats showed the agar gel
     increased wound healing and impeded bacterial growth.
     burn dressing agar gel
ŞΤ
ΙT
     Burn
        (agar gel topical dressing for)
ΙT
     Surgical dressings and goods
        (agar gel, for burns)
     9002-18-0
IT
     RL: BIOL (Biological study)
        (gel, topical burn dressing contg.)
IT
     111-46-6, biological studies
     RL: BIOL (Biological study)
        (topical agar gel burn dressing contg.)
L80 ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2002 ACS
    1981:449446 HCAPLUS
AN
DN
    95:49446
    Antiseptic dentifrice
TI
     Pellico, Michael A.; Montgomery, Robert E.
ΙN
     Laclede Professional Products, Inc., USA
PΑ
     U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 59,243, abandoned.
SO
     CODEN: USXXAM
DT
     Patent
LA
     English
     A61K007-22; A61K007-28; A61K037-50; A61K031-195
IC
NCL 424050000
     63-6 (Pharmaceuticals)
CC
     Section cross-reference(s): 62
FAN.CNT 1
                  KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
                      ____
                                           ______
     -----
PI US 4269822 A 19810526
PRAI US 1979-59243 19790720
                                           US 1980-182384 19800829
     An antiseptic dentifrice contains 0.01-0.5 wt. % oxidizable amino acid
     substrate and 50-1000 IU oxidoreductase enzyme specific to the substrate
     which produces NH3 and H2O2 upon oral application of the dentifrice.
```

Nonag, fluid carriers and limited H2O content protect against NH3 and H2O2

prodn. prior to application. An antiseptic toothpaste was prepd. contg. glycerol [56-81-5] 500, Ca pyrophosphate 400, H2O 25, NaHCO3 50, Super-Pro 20, glycine [56-40-6] 0.5 g, glycine oxidase [39307-16-9] 5000 IU, coloring agent 51, flavoring agent 5 g. ST dentifrice antiseptic; amino acid oxidase dentifrice Amino acids, biological studies ΙT RL: BIOL (Biological study) (antiseptic dentifrices contg. oxidoreductase enzyme and) IT Dentifrices (antiseptic, amino acids and oxidoreductase enzyme in) TT Enzymes RL: BIOL (Biological study) (oxidoreductase, antiseptic dentifrices contg. amino acids and) 56-40-6, biological studies 60-18-4, biological studies biological studies 63-68-3, biological studies 63-91-2 tudies 61-90-5, 63-91-2, biological IT 71-00-1, biological studies 73-22-3, biological studies biological studies 319-78-8 327-57-1 338-69-2 344-3 studies 73-32-5, biological studies 319-78-8 1492-24-6 348-67-4 372-75-8 640-68-6 673-06-3 6600-40-4 RL: BIOL (Biological study) (antiseptic dentifrices contg. amino acid oxidase and) 56-81-5, biological studies 57-55-6, biological studies ITRL: BIOL (Biological study) (antiseptic dentifrices contg. amino acids and oxidoreductase enzymes and) 39307-16-9 TT RL: BIOL (Biological study) (antiseptic dentifrices contg. glycine and) 9000-88-8 IT RL: BIOL (Biological study) (antiseptic dentifrices contg. D-amino acids and) 9000-89-9 TT RL: BIOL (Biological study) (antiseptic dentifrices contg. L-amino acids and) L80 ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2002 ACS 1981:32322 HCAPLUS ΑN DN 94:32322 Antifouling marine coating composition containing agar, a plasticizer and TΤ a strengthening agent IN Pellico, Michael A. PΑ USA SO U.S., 4 pp. CODEN: USXXAM DT Patent LA English C09D005-14 TC NCL 106015050 42-7 (Coatings, Inks, and Related Products) CC FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. _____ Α US 4234340 19801118 US 1979-38335 19790511 PΤ AB Strong, nontoxic, antifouling, marine coatings contain agar [9002-18-0], polyol plasticizers, strengthening agents (e.g., K borate), and H2O. Thus, test panels coated with polyurethane foam are dipped in mixts. agar 1.20, dipropylene glycol [25265-71-8] 3.30, K borate 0.05, and H20 5.45 parts and cooled to give a tough gel with a smooth surface. After 9 mo in the Pacific Ocean near Los Angeles, California, the agar-coated portions are completely free of marine growth, while those portions not coated with agar are heavily encrusted with various types of marine growth. agar antifouling coating marine; borate strengthener agar coating; ST

plasticizer agar coating antifouling; propylene glycol plasticizer; glycol

```
dipropylene plasticizer
IT
     Plasticizers
        (polyols, for agar in antifouling coatings)
IT
     Coating materials
        (antifouling, agar gels, additives for)
IT
     Fouling
        (marine, agar gel coatings for prevention of, additives for)
     9002-18-0
IT
     RL: USES (Uses)
        (in antifouling marine coatings)
IT
     25265-71-8
     RL: MOA (Modifier or additive use); USES (Uses)
        (plasticizers, for agar antifouling coatings)
     12712-38-8
IT
     RL: USES (Uses)
        (strengthening agents, for agar antifouling coatings)
    ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2002 ACS
L80
     1979:581498 HCAPLUS
ΑN
     91:181498
DN
     Settable dental compositions with polyterpene binder
ΤI
IN
     Pellico, Michael A.
PΑ
     Denton Industries, Inc., USA
SO
     U.S., 5 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
IC
     C09K003-00
NCL
    106035000
     63-7 (Pharmaceuticals)
CC
FAN.CNT 1
                      KIND DATE
                                           APPLICATION NO.
                                                          DATE
     PATENT NO.
                                           _____
     -----
                     ____
                           -----
                                                           -----
                                           US 1978-908241
                                                            19780522
                           19790717
PΙ
     US 4161410
                      Α
                           19761027
PRAI US 1976-736241
    An oral, settable dental compn. was prepd. by interacting Component A
     contg. (i) a liq. polycarboxylic acid such as C36 dimer acid, (ii) a
     reaction rate activator exemplified by AcOH, Zn(OAc)2, EtOH, PhCH2OH, or
    mixts. thereof and (iii) a thermoplastic hydrocarbon resin as, for
     example, polyterpene resin with Component B contg. a metallic base such as
     ZnO or a mixt. of NO and MgO in a suitable fluid carrier. Thus, a compn.
     was prepd. by reacting component A contg. 3 g Empol 1018 [9080-23-3] (C36
     dimer acid) 20 g Piccolyte C115 [25766-18-1] (polyterpene resin) and 0.5
     g EtOH with component B which contained 60 g ZnO, 30 g MgO, and 10 g
    peanut oil.
ST
     dental compn polyterpene binder
     Dental materials and fillings
ΙT
        (polyterpene binder for)
                                     1314-13-2, biological studies
                                                                     9080-23-3
ΙT
     1309-48-4, biological studies
     25766-18-1
     RL: BIOL (Biological study)
        (dental compn. contg.)
    ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2002 ACS
L80
     1978:90825 HCAPLUS
AN
     88:90825
DN
     Abrasion-resistant elastomeric composition
TI
     Pellico, Michael A.
ΙN
PA
     USA
SO
     U.S., 4 pp.
     CODEN: USXXAM
DT
     Patent
     English
LA
```

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IC
    C08K005-01
NCL 260030800R
    38-9 (Elastomers, Including Natural Rubber)
CC
FAN.CNT 1
                                          APPLICATION NO. DATE
    PATENT NO.
                  KIND DATE
    US 4066602 A 19780103 US 1976-731521 19761012
PΙ
    Hard abrasion-resistant compns. suited for repairing worn heel and torn
AB
    portions of tennis shoes were prepd. by compounding elastomeric block
    copolymers, such as isoprene-styrene triblock copolymers (I)
    [25038-32-8], finely divided silica or clay, and a solvent to obtain a
    thick pastelike material, which, upon application and evapn. of the
    solvent, sets to an abrasion and peel resistant elastomer. Thus, a compn.
    prepd. from KRATON 1107 (I) 50, NOVACITE L-207A (silica) [7631-86-9] 20,
    and 1,1,1-trichloroethane gave a compn. which set to a hard elastomer with
    good abrasion and peel resistance.
    abrasion resistant rubber compn; isoprene styrene triblock rubber; silica
ST
    abrasion resistant rubber; clay abrasion resistant rubber
    Clays, uses and miscellaneous
IT
    RL: USES (Uses)
        (abrasion-resistant triblock rubber compns. contg.)
IT
    Abrasion-resistant materials
        (rubber triblock compns. contg. silicious fillers)
    Rubber, synthetic
ΙT
    RL: USES (Uses)
        (isoprene-styrene, triblock, abrasion-resistant compns., contg.
        silicious fillers)
    Rubber, butadiene-styrene, uses and miscellaneous
ΙT
    RL: USES (Uses)
        (triblock, abrasion-resistant compns., contg. silicious fillers)
IT
    7631-86-9, uses and miscellaneous
    RL: USES (Uses)
        (abrasion-resistant triblock rubber compns. contg.)
ΙT
    25038-32-8
    RL: USES (Uses)
        (triblock, rubber, abrasion-resistant compns., contg. silicious
        fillers)
L80 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2002 ACS
AN
    1976:91400 HCAPLUS
DN
    84:91400
    Curing of liquid polythiopolymercaptan polymers
TI
IN
    Pellico, Michael A.
PΑ
    Denton Industries, Inc., USA
SO
    U.S., 6 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
IC
    C08G
NCL 260079000
    38-13 (Elastomers, Including Natural Rubber)
CC
FAN.CNT 1
    PATENT NO. KIND DATE
                                          APPLICATION NO. DATE
                     ----
                                          _____
    ______
PI US 3923754 A 19751202
PRAI US 1973-414893 19731112
                                          US 1974-518378 19741029
    Liq. polythiopolymercaptan rubbers were room-temp. vulcanized in 15 min
    using .gtoreq.20 parts polysulfide and .gtoreq.20 parts of zinc component.
    Thus, liq. polysulfide rubber (Thiokol LP 2), blended at room temp. with
    20 parts zinc oxide (I) [1314-13-2] and 20 parts tetramethylthiuram
    disulfide [137-26-8] had working life 5 min and cure time 9 min, compared
    with 15.5 and 25, resp., for a similar compn. contg. 5 parts I.
    liq polysulfide rubber vulcanization; zinc oxide vulcanization
ST
```

polysulfide; thiuram vulcanization liq polysulfide IT Vulcanization accelerators (thiuram disulfides-zinc oxides, for polysulfide rubber) IT Rubber, polysulfide (vulcanization accelerators for, thiuram disulfides-zinc oxides as) 1314-13-2, uses and miscellaneous 1314-22-3 IT RL: USES (Uses) (vulcanization accelerators, contg. thiuram disulfides, for polysulfide rubbers) 120-78-5 97-77-8 137-26-8 971-15-3 1634-02-2 TT RL: USES (Uses) (vulcanization accelerators, contg. zinc oxides, for polysulfide rubber) L80 ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2002 ACS 1975:35056 HCAPLUS AN 82:35056 DN TΙ Settable dental compositions Pellico, Michael A. IN PA Denton Industries, Inc. SO U.S., 4 pp. CODEN: USXXAM DT Patent LA English IC C09K NCL 106035000 63-7 (Pharmaceuticals) CC FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE US 3837865 A 19740924 US 1972-313449 19721208 ΡI An oral, settable dental compn. is prepd. using a 2-component system in ΑB which the components interact to form the compn.; component A contains a polycarboxylic acid such as C36 dimer acid or C54 trimer acid or their mixts. and a reaction rate activator such as an aliphatic org. acid having C2-10 atoms or a Ca, Mg, or Zn salt of the acid or their mixts. in an amt. of 0.25-10% by wt. based on the wt. of the polycarboxylic acid; component B contains a metallic base such as the oxide or hydroxide of Zn, Mg, Ca, or Cu, or their mixts. The metallic base is present in an amt. of 0.1-4.0parts by wt./1.0 part by wt. of polycarboxylic acid. Thus, a compn. is prepd. in which component A contains dimer acidEMPOL 1018 [9080-23-3]30.0, modified rosin Poly-Pale [9006-46-6] 20.0, and HOAc 0.5 wt. 1b and component B contains ZnO [1314-13-2]60.0, MgO [1309-48-4]30.0, and castor oil 10.0 wt. 1b. Component A is prepd. by mixing the rosin with the dimer acid and heating the mixt. to 200.degree.F or until the rosin is melted and dissolved in the acid, at which point the HOAc is added to the mixt. Component B is prepd. by mixing the ZnO and MgO with the castor oil at room temp. until a smooth mixt. is obtained. Extrusion tubes are filled with component A and B. Equal amts. of component A and B are dispensed onto a mixing board at room temp. and hand mixed. The mixt. forms a solid, cementitious, coherent mass in 4 min. It is well suited for use as a dental impression material. ST dental cement settable Dental materials and fillings ΙT (polycarboxylic acids and rosins and metal oxides) 1309-48-4, biological studies 1314-13-2, biological studies 9006-46-6 TT 9080-23-3 9083-98-1 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dental cement contg., settable)

^{=&}gt; fil wpix FILE 'WPIX' ENTERED AT 12:00:39 ON 02 OCT 2002

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FILE LAST UPDATED: 01 OCT 2002 <20021001/UP>
MOST RECENT DERWENT UPDATE 200263 <200263/DW>
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- => d all abeg tech abex tot
- L142 ANSWER 1 OF 40 WPIX (C) 2002 THOMSON DERWENT
- AN 2002-566627 [60] WPIX
- DNC C2002-160595
- TI Oral tooth cleaning composition used as, e.g. toothpaste, comprises peroxy amino phthalamide, and specified amount of hydrogen peroxide.
- DC B07 D21 E13
- IN JOINER, A; WATERFIELD, P C
- PA (UNIL) UNILEVER HOME & PERSONAL CARE USA DIV CO; (UNIL) HINDUSTAN LEVER LTD; (UNIL) UNILEVER NV; (UNIL) UNILEVER PLC
- CYC 98
- PI WO 2002047638 A1 20020620 (200260)* EN 16p A61K007-20 <-RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZM ZW
 - W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

US 2002122776 A1 20020905 (200260) A61K007-16 <--

- ADT WO 2002047638 A1 WO 2001-EP13829 20011126; US 2002122776 A1 US 2001-13602 20011211
- PRAI EP 2000-311230 20001215
- IC ICM A61K007-16; A61K007-20 ICS A61K007-30
- AB WO 200247638 A UPAB: 20020919

NOVELTY - An oral tooth cleaning composition comprises a peracid (I) comprising a peroxy amino phthalamide; and 0.01-5 w/w% of hydrogen peroxide or its source that will generate the same amount of hydrogen peroxide in the composition.

DETAILED DESCRIPTION - An oral tooth cleaning composition comprises a peracid for physical contact with an inner mammalian mouth; and 0.01-5 w/w% of hydrogen peroxide or its source that will generate the same amount of hydrogen peroxide in the composition. The peracid is a peroxy amino phthalamide of formula (I).

R = H or 1-4C alkyl;

n = 1-8; and X = CO or SO2.

An INDEPENDENT CLAIM is included for a commercial package comprising the above oral tooth cleaning composition together with instructions for its use in whitening teeth.

USE - The tooth cleaning composition is used as gel bioadhesive patch/strip, tooth lacquer, or toothpaste for cleaning teeth (claimed). It can be used as mousse, mouthwash, or powder cream, and may be also formulated for use in dual-compartment type dispenser.

ADVANTAGE - The composition has an improved teeth whitening or bleaching effect.

Dwg.0/0

FS CPI

FAAB; GI; DCN

CPI: B05-C08; B06-D03; B06-F01; B10-A04; B14-N06; MC D08-B08A; D08-B08B; E05-S; E06-D03; E31-E UPTX: 20020919

TECH

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Component: Hydrogen peroxide is present in the form of carbamide peroxide.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Component: The peracid is in the form of a cyclodextrin complex. The peracid is present in the composition in the range 0.01-5 w/w%.

ABEX

SPECIFIC COMPOUNDS - Use of 1 compound (I) is specifically claimed, i.e. N, N-phthaloylaminoperoxycaproic acid.

EXAMPLE - Two tooth cleaning solutions (A and B) were prepared. Solution A comprised of 0.5 M of sodium hydrogen carbonate (NaHCO3); while solution B comprised of 0.5 M of NaHCO3, 0.1% hydrogen peroxide, and 1 w/w% M of N, N-phthaloylaminoperoxycaproic acid. Stained discs were immersed in respective solution for 15 minutes. After which, each disc was evaluated for % stain removal. The results showed that disc immersed in solution A exhibited darkening or no removal of stain was observed; while disc immersed in solution B exhibited 16% stain removal.

L142 ANSWER 2 OF 40 WPIX (C) 2002 THOMSON DERWENT

2001-407785 [43] AN WPIX

DNC C2001-123428

Two-component dental bleaching composition for whitening teeth comprises ΤŢ dental peroxide gel including both carbamide peroxide and hydrogen peroxide.

A96 D21 DC

IN PELLICO, M A

(DISC-N) DISCUS DENTAL INC PΑ

CYC

WO 2001017481 A2 20010315 (200143)* EN 18p A61K000-00 PΙ

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

A61K000-00

AU 2001012512 A 20010410 (200143)

A2 20020605 (200238) EN A61K007-16 <---EP 1210062

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

BR 2000013912 A 20020514 (200240) A61K007-16

WO 2001017481 A2 WO 2000-US40861 20000911; AU 2001012512 A AU 2001-12512 ADT 20000911; EP 1210062 A2 EP 2000-974089 20000911, WO 2000-US40861 20000911; BR 2000013912 A BR 2000-13912 20000911, WO 2000-US40861 20000911

FDT AU 2001012512 A Based on WO 200117481; EP 1210062 A2 Based on WO

200117481; BR 2000013912 A Based on WO 200117481

PRAI US 1999-153162P 19990909

IC ICM A61K000-00; A61K007-16

ICS A61K007-18; A61K007-20; A61K007-22

AB WO 200117481 A UPAB: 20011129

NOVELTY - A two-component dental bleaching composition comprises a dental peroxide gel including both carbamide peroxide and hydrogen peroxide, and an orally compatible activator gel. The components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of bleaching teeth involving providing a dual barreled syringe loaded on one barrel with the dental peroxide gel, and on the other barrel with an orally compatible activator gel; dispensing the components into a bleaching tray while mixing the components together to form a bleaching gel; and applying the bleaching tray and bleaching gel to teeth.

USE - For whitening teeth.

ADVANTAGE - The composition has increased peroxide content to facilitate the tooth whitening process.

Dwg.0/0

FS CPI

FA AB

MC CPI: A12-V03C1; D08-B08

TECH UPTX: 20010801

TECHNOLOGY FOCUS - POLYMERS - Preferred Composition: The dental peroxide gel includes hydroxypropyl cellulose, 1.98 wt.% Klucel GFF(RTM: Hydroxypropylcellulose), and 8.0 wt.% or 6.5 wt.% Polawax NF(TM). It contains the peroxides in the absence of a radiant or heat energy activator substance.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: The dental peroxide gel includes at least 10 (preferably 16.2) wt.% carbamide peroxide. It also includes 33.0 wt.% propylene glycol, 8.42 wt.% or 11.92 wt.% glycerine, 8.9 wt.% propylene glycol, and 16.1 wt.% or 14.1 wt.% glycerine.

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Composition: The dental peroxide gel includes at least 0.5 (preferably 2.9 or 11.8) wt.% hydrogen peroxide, and 4.5 wt.% CAB-O-SIL EH-5(RTM: Silica), and antifoaming agent. The activator gel comprises sodium fluoride, potassium nitrate, and tetrapotassium pyrophosphate.

ABEX

EXAMPLE - A peroxide gel was prepared by mixing (wt.%) propylene glycol (33.0), Klucel GFF(RTM: Hydroxypropylcellulose) (1.98), glycerine (9.420), CAB-O-SIL EH-5(RTM: Silica)(4.5), carbamide peroxide (16.2), hydrogen peroxide (11.8), glycerine (14.0), and Polawax NF(TM)(9.0). An activator gel was prepared by mixing propylene glycol (33.0), Klucel GF(1.98), aloe vera powder (0.25), sodium fluoride (0.35), propylene glycol (9.42), glycerine (40.0), peppermint (0.2), natural peppermint oil (0.4), CAB-O-SIL EH-5(7.4), and potassium nitrate (7.0). The peroxide gel and activator gel were adapted to be mixed and dispensed into a bleaching tray for application to the teeth to be whitened.

L142 ANSWER 3 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 2001-265412 [27] WPIX

DNC C2001-080256

TI Biocidal treatment of otitis externa in dogs and cats uses a hydrogen peroxide generating di-enzymatic composition to make a hypoiodite biocide in situ under water-free conditions.

DC B04 C03 D16

IN PELLICO, M A

PA (PELL-I) PELLICO M A

CYC 1

PI US 6214339 B1 20010410 (200127)* 7p A61K038-44 ADT US 6214339 B1 US 2000-481861 20000112 PRAI US 2000-481861 20000112 IC ICM A61K038-44 ICS A61K038-47; C12N009-02; C12N009-14

AB US 6214339 B UPAB: 20010518

NOVELTY - Treating otitis externa in dogs and cats with a hydrogen peroxide generating di-enzymatic composition that makes a biocidal hypoiodite in situ in substantially water-free conditions, is new.

DETAILED DESCRIPTION - A treatment for otitis externa outer ear

infection in dogs and cats comprises:

- (1) applying to the affected ear a non-aqueous therapeutic composition comprising a carrier (80-96 wt.%) selected from glycerol and/or propylene glycol, oxidizable substrate (0.015-0.6 mmol/g), an oxidoreductase enzyme (0.5-500 International Units/g) to make hydrogen peroxide in situ, an iodide salt (0.0001-0.01 mmol/g) and peroxidatic peroxidase (0.05-20 International Units/g) which is lactoperoxidase, horseradish peroxidase, iodide peroxidase, myeloperoxidase or mixtures of these to make a hypoiodite biocide in situ; and
- (2) limiting unbound water to no more than 1 wt.% of the composition to stabilize the composition against hydrogen peroxide production until it is in the outer ear.

ACTIVITY - Biocidal; antibacterial. No biological data is given.

MECHANISM OF ACTION - None given.

USE - Useful for treating external otitis externa in dogs and cats. ADVANTAGE - The use of antibiotics is avoided.

Dwg.0/0

FS CPI

MC

FA AB; DCN

CPI: B04-C03C; B04-L03A; B04-L03B; B04-N04; B05-A01A; B05-A01B; B05-C08; B10-A07; B10-B02; B10-E04C; B14-A01; B14-N02; C04-C03C; C04-L03A; C04-L03B; C04-N04; C05-A01A; C05-A01B; C05-C08; C10-A07; C10-B02; C10-E04C; C14-A01; C14-N02; D05-A01A2; D05-A01A3; D05-A01B1

TECH

UPTX: 20010518 TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Composition: The composition comprises the fluid carrier (90-96 wt.%). The iodide is selected from the potassium, sodium, ammonium or their resulting mixed salts. The reductase system is selected from B-D-glucose or dextrose and qlucose oxidase, D-alanine and D-amino acid oxidase or D-glumate and D-glumate oxidase. The oxidizable substrate concentration is 0.025-0.1 mmole/g, the oxidoreductase concentration is 10-40 International Units/g, the peroxidase concentration is 0.1-1 International Units/ml and the iodide concentration is 0.001-0.006 mmole/g. The composition optionally comprises an additional anti-bacterial agent selected from lysozyme, lactoferrin or their mixtures, a thickener to increase viscosity for administering and retaining in the outer ear, and optionally an amino glucose selected from glucosamine, N-acetylglucosamine or their mixtures. The unbound water is limited to no more than 0.5, preferably 0.25 wt.% of the composition.

ABEX

ADMINISTRATION - Given intra-aurally. No dosage is disclosed.

EXAMPLE - A composition for treating external otitis externa in dogs and cats comprises glycerol USP 15.410 g, propylene glycol 79.623 g, Klucel(TM) MFF 0.44 g, benzyl alcohol 3.006 g, hydrocortisone 1 g, potassium iodide 0.045 g, beta-D-glucose 0.301 g, water 0.150 g, glucose oxidase 0.001 g, lactoferrin 0.008 g, lysozyme 0.008 g and lactoperoxidase 0.008 g.

L142 ANSWER 4 OF 40 WPIX (C) 2002 THOMSON DERWENT AN 1999-288148 [24] WPIX

rose - 10 / 045184 DNC C1999-085179 TΙ Two-component dental bleaching system. DC A25 A96 D21 IN PELLICO, M A (PELL-I) PELLICO M A PA CYC 81 A1 19990429 (199924)* EN 21p A61K006-00 PΙ WO 9920226 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW A 19990727 (199936) US 5928628 A61K007-16 <--A 19990510 (199938) A61K006-00 AU 9910935 ADT WO 9920226 A1 WO 1998-US21882 19981016; US 5928628 A US 1997-957008 19971023; AU 9910935 A AU 1999-10935 19981016 FDT AU 9910935 A Based on WO 9920226 PRAI US 1997-957008 19971023 IC ICM A61K006-00; A61K007-16 ICS A61K007-00; A61K007-20 AB WO 9920226 A UPAB: 19990624 NOVELTY - A two-component dental bleaching system comprises (a) a dental peroxide gel having pH 4-7, and (b) an orally compatible alkaline gel having pH of 9-13. The components are admixed and applied to the teeth from a dental carrier. Admixing provides a gel having pH of 8.5--11 to increase the rate of release of active oxygen from the peroxide and accelerate the bleaching cation. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (i) a two-component dental bleaching system wherein the components are adapted to be admixed and applied to the teeth from a dental bleaching tray for sustained contact, the system comprises: (a) as a first component, a dental peroxide gel having a pH of 4-7 and containing hydrogen peroxide in an amount of 7-30 wt %, eugenol in an amount of 0.1-0.5 wt %, poloxamer in an amount to provide a high gel strength, gel modifying aliphatic polyol, and water to 100 %; and (b) as a second component, an orally compatible alkaline gel containing: an alkali metal hydroxide in an amount to provide the alkaline gel with a pH of 9-13, poloxamer in an amount to provide a high strength alkaline gel, gel modifying aliphatic polyol, and water to 100 %, providing a dental bleaching gel of reduced sensitivity and having a pH of 8.5-11 to increase the rate of release of active oxygen from the peroxide and accelerate the bleaching action; and (ii) method for bleaching teeth which comprises: (1) concurrently extruding first and second components of the dental bleaching system through an admixing dispenser and into the reservoir system of a dental bleaching tray, (2) placing the dental bleaching tray in the oral cavity so as to bring the admixed gel into contact with the teeth to be bleached, (3) maintaining the admixed gel in contact with the teeth for up to one hour or longer per day, and (4) repeating steps (1), (2) and (3) for multiple days to thereby bleach the teeth. USE - An improved dental bleaching system is provided. ADVANTAGE - The system has accelerated bleaching action and reduced oral sensitivity. Dwg.0/0 FS

CPI AB

CPI: A12-V04B; D08-B08 MC.

FΑ

TECH UPTX: 19990624

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Bleaching System: The dental bleaching system comprises: (a) the dental peroxide gel comprising orally compatible peroxide in an amount of 7-30 wt %, an effective amount of gelling agent to provide a high strength dental peroxide gel, and water to 100 wt %, and (b) the orally compatible alkaline gel comprises: orally

compatible alkalinising agent in an amount to provide the alkaline gel with a pH of 9-13, an effective amount of gelation agent to provide a high strength alkaline gel, and water to 100 wt %. The orally compatible peroxide is hydrogen peroxide in an amount of 11-22 wt %. The alkalinising agent is selected from alkali metal hydroxide, ammonium hydroxide, basic alkanolamines and equivalents thereof in an amount to provide a pH of 10-12, it is preferably potassium hydroxide.

TECHNOLOGY FOCUS - POLYMERS - Preferred Gelling Agent: The gelling agent is poloxamer or gelling equivalents thereof. The poloxamer is polyoxyethylene polyoxypropylene block copolymer having an average molecular weight of 3,000-15,000 (10,000-15,000) and the polyoxyethylene portion thereof constitutes 30-80 (70-80) wt % of the molecule. TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Gel: The dental peroxide gel also includes gel modifying aliphatic polyol in an amount of 15-30 wt %. The gel modifying aliphatic polyol is selected from propylene glycol, glycerin, mixtures thereof and equivalents thereof.

ABEX

EXAMPLE - A peroxide gel was prepared comprising water (18.25 wt %), glycerin (10.0 wt %), propylene glycol (11.0 wt %), xylitol (5.0 wt %), hydrogen peroxide (50 %) (30.0 wt %), Poloxamer 407, eugenol (0.25 wt %) and peppermint flavor (0.50 wt %). An alkaline gel was prepared comprising deionized water (53.5 wt %), glycerin (17.0 wt %), propylene glycol (10.0 wt %), Poloxamer 407 (18.0 wt %), peppermint flavor (0.70 wt %), color (0.30 wt %) and potassium hydroxide (0.50 wt %). The peroxide gel and alkaline gel were adapted to be admixed and dispensed into the reservoir system of a dental bleaching tray, such as a custom-fitted dental tray, for application to the teeth to be whitened.

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L142 ANSWER 5 OF 40 WPIX (C) 2002 THOMSON DERWENT
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AN 1999-144558 [13] WPIX

CR 1999-571239 [48]; 2000-386908 [33]; 2001-069672 [08]; 2001-122488 [10]; 2001-662604 [73]

DNC C1999-042422

TI Multi-compartment sterilisation system - which flows either liquid or vapour sterilant directly through the lumens of the devices to be sterilised using a pressure drop across the lumen ends.

DC D22 E17 E36 P34 Q31

IN JACOBS, P T; LIN, S

PA (ETHI) ETHICON INC; (JOHJ) JOHNSON & JOHNSON RES PTY LTD; (JOHJ) JOHNSON & JOHNSON

CYC 30

PI EP 898971 A2 19990303 (199913) * EN 23p A61L002-16

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

A 19990304 (199921) B65B055-10 AU 9880845 A 19990525 (199931) 17p A61L002-20 JP 11137650 A 19990221 (199932) A61L002-16 CA 2245396 A 20000523 (200032) A61L002-16 US 6066294 A61L002-00 US 6224828 B1 20010501 (200126) A61L002-00 MX 9806874 A1 20000801 (200137) B65B055-10 B 20010823 (200154) AU 737537

ADT EP 898971 A2 EP 1998-306707 19980821; AU 9880845 A AU 1998-80845 19980819; JP 11137650 A JP 1998-251943 19980821; CA 2245396 A CA 1998-2245396 19980820; US 6066294 A US 1997-915922 19970821; US 6224828 B1 Cont of US 1997-915922 19970821, US 1999-409964 19990930; MX 9806874 A1 MX 1998-6874 19980821; AU 737537 B AU 1998-80845 19980819

FDT US 6224828 B1 Cont of US 6066294; AU 737537 B Previous Publ. AU 9880845

PRAI US 1997-915922 19970821; US 1999-409964 19990930

IC ICM A61L002-00; A61L002-16; A61L002-20; B65B055-10 ICS A61L002-14; A61L002-18; A61L002-26

AB EP 898971 A UPAB: 20011227

NOVELTY - The sterilisation of a medical device uses a multi-

chambered compartment with at least first and second rigid chambers (2, 4), each chamber independently serving as a sterilisation chamber and can be operated independently; an open and closed interface (6a) between the two chambers and a source of sterilant to provide the sterilant in first and/or second chamber. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for: a method of sterilising the interior and exterior of a lumen device by placing the device (40) in a multi-chambered compartment with first and second chambers where the lumen is partly in first chamber and partly in second chamber across the interface. A sterilant is then introduced into the multi-chambered compartment from a source of sterilant and this creates a flow of sterilant between first and second chamber through the lumen (42). USE - A system with multiple chambers used for chemical sterilisation of medical devices. ADVANTAGE - A simple and effective method of vapour sterilisation of articles with both long, narrow lumens as well as shorter, wider lumens, with independently operable chambers. Dwg.2/6 CPI GMPI AB; GI; DCN CPI: D09-A01A; E10-A04B; E31-E L142 ANSWER 6 OF 40 WPIX (C) 2002 THOMSON DERWENT 1998-556444 [47] WPIX DNC C1998-166479 Elemental nutritional product for cancer patients - comprises composition which is low in carbohydrate, high in fat and includes an imbalance of amino acids. B05 D13 PELLICO, M A (PELL-I) PELLICO M A CYC 27 US 5817695 A 19981006 (199847)* g8 A61K031-20 Al 19990630 (199930) EN A23L001-29 EP 925726 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI A1 19990624 (199951) EN A23L001-29 CA 2244608 US 5817695 A US 1997-997837 19971224; EP 925726 A1 EP 1998-308062 19981002; CA 2244608 A1 CA 1998-2244608 19980731 PRAI US 1997-997837 19971224 ICM A23L001-29; A61K031-20 ICS A23L001-305; A61K031-195 5817695 A UPAB: 19981125 Elemental nutritional product (A) for cancer patients comprises: (a) carbohydrate providing 2-25 % of the total caloric requirement; (b) fat providing 40-80 % of the total caloric requirement; and (c) elemental essential and non-essential amino acids providing the balance to 100% of the total caloric requirement. Component (c) includes (wt.%): 0-5 phenylalanine; 2-6 L-tyrosine; 5-11 L-methionine; and 20-35 L-leucine. Also claimed is an elemental nutritional product (B) for cancer patients comprising: (a') carbohydrate providing 2-15 % of the total caloric requirement; (b') fat providing 60-75 % of the total caloric requirement; and (c') elemental essential and non-essential amino acids providing the balance to 100% of the total caloric requirement. Component (c') includes (wt.%): 2-4 phenylalanine; 3-5 L-tyrosine; 6-9 L-methionine; 2-5 L-glutamine; 2-6 L-lysine; 20-25 L-arginine HCl; and 24-30 L-leucine. USE - The compositions are used to provide cancer patients with nutrition while suppressing cancer growth.

FS FA

MC

AN

TΙ

DC

ΙN

PA

PΙ

ADT

IC

AB

ADVANTAGE - The compositions are high in fat, low in carbohydrate and have an imbalance of amino acids, phenylalanine, L-tyrosine and L-methionine being present in lower than normal amounts and L-leucine being present in excess to suppress cancer growth.

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Dwg.0/0
     CPI
FS
FA
     AB; DCN
     CPI: B04-B01B; B04-D01; B10-B02C; B14-H01; D03-H01T2
MC
L142 ANSWER 7 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1998-242378 [22]
                       WPIX
                        DNC C1998-075657
DNN N1998-191874
     Dental device for dispensing dental compositions - provides separate
TI
     measured streams of peroxide and bi carbonate salt, allowing accurate
     A14 A96 B07 D21 P28 Q32 Q34
DC
     BARROW, S R; RYLES, C W; WILLIAMS, D R; URBAEZ, J A
ΙN
     (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV; (CHEO) CHESEBROUGH PONDS USA CO
PA
CYC 26
     EP 839517
                   A2 19980506 (199822) * EN
                                             10p
                                                    A61K007-16
                                                                     <--
PT
         R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE
                                                     B65D083-76
                  A 19980501 (199836)
     CA 2220161
                                                     B64D005-52
                 A 19990914 (199944)
     US .5950873
                 A 19991123 (200002)
                                                     B67D005-52
                                                                     <--
     US 5988444
     MX 9708406
                  A1 19980901 (200017)
                                                     B65D081-32
                                                                     <---
    EP 839517 A2 EP 1997-203353 19971029; CA 2220161 A CA 1997-2220161
     19971031; US 5950873 A Provisional US 1996-32033P 19961126, US 1997-912252
     19970815; US 5988444 A Provisional US 1996-32033P 19961126, Div ex US
     1997-912252 19970815, US 1999-227752 19990108; MX 9708406 A1 MX 1997-8406
     19971031
                     19961126; US 1996-29866P 19961101; US 1997-912252
PRAI US 1996-32033P
     19970815; US 1999-227752
                               19990108
     ICM .A61K007-16; B64D005-52; B65D081-32;
IC
         B65D083-76; B67D005-52
     ICS
        A47K005-12; B65D035-22
AB
           839517 A UPAB: 19980604
     Dental device comprises: (a) a 2-part telescopic dispensing container,
     with the upper part including at least 2 hollow and separate parallel
     cylinders (each with a closed end and an open end that accommodates a
     piston to force any flowable material towards the open end when the
     cylinders and pistons are compressed relatively); and (b) outlets which
     link with outlet channels in the cylinders, which are unconnected but
     which cause the flowable materials to flow together to afford a single,
     banded, unmixed stream. One of the semi-solid flowable materials (A)
     comprises a peroxide (I) and the other (B) comprises a bicarbonate salt
     (II). Each of (A) and (B) are stored separately in the above cylinders and
     at least 1 comprises 0.05-20\% of a synthetic linear anionic
     polycarboxylate (III) or a polyphosphate (IV).
          USE - The device is used to dispense dental compositions.
          ADVANTAGE - The device including delivers uniform amounts of each
     stream in ribbons, allowing more accurate dosing than prior art devices.
     Dwg.0/1
FS
     CPI GMPI
     AB; DCN
FΑ
MC
     CPI: A10-E21; A12-V02B; A12-V04B; B04-C03; B05-A01B;
          B05-B02A3; B05-B02C; B05-C04; B05-C07; B10-A04; B11-C03;
          B14-N06A; D08-B08
L142 ANSWER 8 OF 40 WPIX (C) 2002 THOMSON DERWENT
                        WPIX
     1998-158757 [14]
CR
     1997-288535 [26]
DNN N1998-126228
                        DNC C1998-051127
     Stabilised tooth whitening gel - comprises carbamide
ΤT
     peroxide in a carrier comprising poly ol, carboxy polymethylene,
     cellulosic ether, and xanthan gum.
     A11 A14 A25 A96 D21 P32
DC
```

```
IN
     PELLICO, M A
PA
     (LACL-N) LACLEDE PROFESSIONAL PROD INC
CYC
                                               5p
PΙ
     US 5718886
                  A 19980217 (199814)*
                                                     A61K007-16
                                                                     <--
ADT
    US 5718886 A CIP of US 1996-599364 19960311, US 1996-772422 19961223
FDT US 5718886 A CIP of US 5631000
PRAI US 1996-772422
                      19961223; US 1996-599364
                                                 19960311
     ICM A61K007-16
IC
     ICS
         A61C005-00
     US
          5718886 A UPAB: 19980406
AΒ
     A tooth whitening gel compsn. comprises carbamide
     peroxide dispersed in an anhydrous gelatinous carrier.
          The carrier comprises (by wt. of total compsn.):
          (a) a polyol (any glycerol not more than 10%);
          (b) a thickener containing neutralised carboxypolymethylene and
     cellulosic ether soluble in the polyol; and
          (c) 0.1-1.5% xanthan gum.
          ADVANTAGE - The xanthan gum stabilises the tooth whitening compsn.
     against viscosity degradation during oral use, allowing reduced amounts of
     polymethylene to be employed.
     Dwg.0/0
     CPI GMPI
FS
FΑ
     AΒ
     CPI: A03-A00A; A03-A04A; A10-E01; A12-V04B; D08-A05
MC
L142 ANSWER 9 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1997-341281 [31]
                      WPIX
DNC C1997-109563
     Dual component tooth whitening dentifrice - contains per oxide compound
TI
     and incompatible abrasive, which are maintained separate from each other
     until dispensed.
     D21 E12 E16 E37
DC
     CHRISTINA-BECK, L M; CURTIS, J P; GREENFEDER, S E; THEILER, R; BECK, L M C
IN
     (COLG) COLGATE PALMOLIVE CO
PA
CYC
    74
                   A1 19970619 (199731)* EN
                                              28p
                                                     A61K007-20
PΙ
     WO 9721419
        RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD
            SE SZ UG
         W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE
            HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
            NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN
                                                     A61K007-20
     AU 9712782
                A 19970703 (199743)
                                                                     <--
                  A 19980616 (199831)
                                                                     <--
     US 5766574
                                                     A61K007-16
     BR 9611911
                  A 19990406 (199920)
                                                                     <--
                                                     A61K007-20
                                                                     <--
                  A 19990210 (199925)
                                                     A61K007-20
     CN 1207669
                                                                     <--
                   В 19990708 (199938)
                                                     A61K007-20
     AU 707293
                   A1 19980901 (200017)
                                                     A61K007-20
                                                                     <--
     MX 9804555
ADT WO 9721419 A1 WO 1996-US19286 19961205; AU 9712782 A AU 1997-12782
     19961205; US 5766574 A Provisional US 1995-8389P 19951208, US 1996-746728
     19961115; BR 9611911 A BR 1996-11911 19961205, WO 1996-US19286 19961205;
     CN 1207669 A CN 1996-199587 19961205; AU 707293 B AU 1997-12782 19961205;
     MX 9804555 A1 MX 1998-4555 19980608
FDT AU 9712782 A Based on WO 9721419; BR 9611911 A Based on WO 9721419; AU
     707293 B Previous Publ. AU 9712782, Based on WO 9721419
PRAI US 1995-8389P
                      19951208; US 1996-746728
                                                19961115
REP DE 2329752; EP 202359; US 5256402
     ICM A61K007-16; A61K007-20
IC
     ICS A61K031-375; A61K033-40
AΒ
          9721419 A UPAB: 19970731
     Dual component dentifrice composition comprises a first dentifrice
     component containing a peroxide compound and a second dentifrice
     component comprising an abrasive incompatible with the peroxide compound.
     The two components are maintained separate until dispensed and combined
```

for application to teeth to be whitened.

The peroxide compound is preferably urea peroxide and the abrasive is silica, or alumina, preferably calcined alumina. A peroxide activator, preferably a manganese coordination complex, especially Mn gluconate is contained in an amount to activate the peroxide compound when the two components are combined for use. The abrasive dentifrice component also comprises an antibacterial agent (preferably Triclosan), a potassium salt (preferably potassium nitrate to treat dentin hypersensitivity, and a vitamin compound preferably vitamin C.

 $\ensuremath{\mathsf{USE}}$ - The composition is useful for whitening human teeth and for removing stains.

ADVANTAGE - The composition has improved whitening of teeth and may be used at home. $\dot{}$

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: D08-A; E05-B01; E10-A04B; E10-A13B2; E31-E; E31-P03; E34-C02

L142 ANSWER 10 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1997-288535 [26] WPIX

CR 1998-158757 [14]

DNN N1997-239002 DNC C1997-092758

TI Anhydrous tooth whitening gel - containing a limited amount of glycerin has good package stability and rheology and low tooth sensitivity.

DC A96 D21 E16 P32

IN PELLICO, M A; SABABA, V

PA (LACL-N) LACLEDE PROFESSIONAL PROD INC

CYC 1

PI US 5631000 A 19970520 (199726)* 5p A61K007-16 <--

ADT US 5631000 A US 1996-599364 19960311

PRAI US 1996-599364 19960311

IC ICM A61K007-16

ICS A61C005-00

AB US 5631000 A UPAB: 19980406

An anhydrous tooth whitening gel composition comprises carbamide peroxide dispersed in an anhydrous gelatinised carrier comprising (a) a liquid polyol where glycerin, if present, is limited to no more than 10 wt.% of the composition; and (b) a thickener containing neutralised carboxypolymethylene and cellulosic ether soluble in the liquid component. The composition has enhanced package stability; reduced tooth sensitivity and improved thixotropic properties.

Also claimed is the method of use of the gel.

USE - The composition is used for whitening teeth (claimed). The whitening gels can be packaged in (1) syringes for dispensing into custom-fitted dental trays that are usually worn at night but can be worn during the day, typically over a period of 10-14 days; (2) gel dispensing tubes or bottles for extrusion into general purpose dental trays for carrying out the dental whitening process; or (3) in pre-packaged dental trays.

ADVANTAGE - The gel has improved package stability and rheology and reduced sensitivity during use compared with conventional dental bleaching gels.

Dwg.0/0

FS CPI GMPI

FA AB; DCN

MC CPI: A03-A04A1; A04-A03; A04-F04; A12-V04B; D08-A05; E10-A04B

L142 ANSWER 11 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1997-212656 [19] WPIX

DNC C1997-068647

TI Stable compsn. for bleaching teeth, contg. hydrogen peroxide cpd. - in matrix contg. thickener, stabilisers, pH

regulator, and calcium chelating agent. DC D21 E19 IN MONTGOMERY, R E PΑ (MONT-I) MONTGOMERY R E; (IDEX-N) IDEX DENTAL SCI INC; (MONT-I) MONTGOMEORY R E CYC 72 A1 19970403 (199719) * EN A61K007-20 PIWO 9711676 22p RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG W: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AU 9672455 A 19970417 (199732) A61K007-20 EP 862408 A1 19980909 (199840) EN A61K007-20 <--R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE A 19990713 (199934) A61K007-20 <--US 5922307 AU 2001023234 A 20010503 (200131)# A61K007-20 <--B1 20011106 (200170) A61K007-20 <--US 6312670 B1 20011127 (200175) A61K007-20 <--US 6322773 US 6331292 B1 20011218 (200205) A61K007-20 <---US 2002061283 A1 20020523 (200239) <--A61K007-20 A61K007-20 <--US 2002064564 A1 20020530 (200240) <--US 2002068041 A1 20020606 (200241) A61K007-20 ADT WO 9711676 A1 WO 1996-US15366 19960925; AU 9672455 A AU 1996-72455 19960925; EP 862408 A1 EP 1996-933896 19960925, WO 1996-US15366 19960925; US 5922307 A Provisional US 1995-4258P 19950925, US 1996-719569 19960925; AU 2001023234 A Div ex AU 1996-72455 19960925, AU 2001-23234 20010226; US 6312670 B1 Provisional US 1995-4258P 19950925, Div ex US 1996-719569 19960925, US 1998-54156 19980402; US 6322773 B1 Provisional US 1995-4258P 19950925, Div ex US 1996-719569 19960925, Cont of US 1998-54156 19980402, Cont of US 1998-192609 19981116, US 1999-374172 19990813; US 6331292 B1 Provisional US 1995-4258P 19950925, Cont of US 1996-719569 19960925, US 1998-192609 19981116; US 2002061283 A1 Provisional US 1995-4258P 19950925, Div ex US 1996-719569 19960925, Cont of US 1998-54156 19980402, Cont of US 1999-374172 19990813, US 2001-658 20011031; US 2002064564 A1 Provisional US 1995-4258P 19950925, Cont of US 1996-719569 19960925, Cont of US 1998-192609 19981116, US 2001-3210 20011031; US 2002068041 Al Provisional US 1995-4258P 19950925, Div ex US 1996-719569 19960925, Cont of US 1998-54156 19980402, US 2001-4048 20011031 FDT AU 9672455 A Based on WO 9711676; EP 862408 A1 Based on WO 9711676; US 6312670 B1 Div ex US 5922307; US 6322773 B1 Div ex US 5922307; US 6331292 B1 Cont of US 5922307; US 2002061283 A1 Div ex US 5922307, Cont of US 6312670, Cont of US 6322773 19950925; US 1996-719569 19960925; AU 2001-23234 PRAI US 1995-4258P 20010226; US 1998-54156 19980402; US 1998-192609 19981116; US 19990813; US 2001-658 20011031; US 2001-3210 1999-374172 20011031; US 2001-4048 20011031 EP 535816; EP 545594; GB 2290234; US 4976955 REP IC ICM A61K007-20 A01N039-00; A61C015-00; A61K007-00; A61K007-16; B01F015-02; ICS B67D005-52; C01B015-01; C01B015-037; C08K003-00 9711676 A UPAB: 19981021 AB WO Compsn. for bleaching teeth by contact contains a cpd. (A) contg. H2O2 and a matrix (B) for application of (A) to a tooth surface. (B) comprises a thickener (I), a stabiliser (II) for (A), an agent (III) for adjusting pH, giving a pH of 6-10 during bleaching, and a calcium-chelating agent (IV). Also claimed are (i) a method for bleaching teeth by applying the compsn. to the teeth; and (ii) a dosage delivery unit comprising a multichamber vessel in which each chamber responds to an externally applied pressure so that a mixt. of reagents in a compartment is forced to

leave the compartment through a mixing baffle in response to the pressure.

The combined reagents comprise the compsn.

 $\ensuremath{\mathsf{USE}}$ - The compsn. is used at home to bleach the teeth of humans and domestic animals.

ADVANTAGE - The compsn. gives a detectable bleaching effect within 30 minutes (claimed), and is stable and easy to use, and uses smaller amts. of H2O2. It can be applied by means of a dental tray. Irritation of hard and soft tissues, tooth sensitivity, and ingestion of the compsn. are reduced.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: D08-B08; E05-B01; E05-G09C; E05-G09D; E31-E

L142 ANSWER 12 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1997-212075 [19] WPIX

CR 1997-309323 [27]

DNC C1997-068391

TI Improving gingival and periodontal tissues, and inhibiting bleeding - using compsn. contg. zinc salt and compsn. contg. bi carbonate, e.g. in tooth-paste, for instant mixing and simultaneous use.

DC B05 B06 D21

IN BARROW, S R; RYLES, C W; WILLIAMS, D R

PA (CHEO) CHESEBROUGH PONDS USA CO

CYC 1

PI US 5616313 A 19970401 (199719) * 6p A61K007-16 <--

ADT US 5616313 A Div ex US 1994-269429 19940630, US 1995-419790 19950411

PRAI US 1994-269429 19940630; US 1995-419790 19950411

IC ICM A61K007-16

ICS A61K007-18; A61K007-20; A61K033-40

AB US 5616313 A UPAB: 19970716

Method for inhibiting gingival bleeding and improving the texture and consistency of gingival and periodontal tissues comprise: (a) delivering a first compsn. (I) contg. 0.1-10 % by wt. of a zinc salt into a receptacle; (b) delivering a second compsn. (II) contg. 1-80 % by wt. of a bicarbonate salt; (c) transferring the combination of first and second compositions from the receptacle to the mouth within five minutes of their delivery; and (d) agitating against the gingival and periodontal tissues.

Also claimed is a process where (I) and (II) are applied to a toothbrush and brushed on the teeth.

USE - The compsns. may be toothpastes, gels or mouthwashes, pref. presented in a dual compartment package for simultaneous delivery.

ADVANTAGE - The separate compositions prevent the decomposition problems of prior art, and are free from chlorinated cpds. The treatment is safe, effective and does not stain the teeth. The taste is acceptable to the consumer.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B05-A03A; B05-B02C; B05-C04; **B05-C08**; B14-N06; B14-N06A; B14-N06B; D08-B08

L142 ANSWER 13 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1997-118802 [11] WPIX

DNC C1997-038315

TI Whitening stained or discoloured teeth in oral cavity - by applying two component whitening compsn comprising peroxygen cpd and manganese coordination complex cpd in vehicles separately dispensed and mixed prior to application to teeth..

DC D21 E12 E16 E37

IN FAKHRY-SMITH, S; GAFFAR, A

PA (COLG) COLGATE PALMOLIVE CO; (FAKH-I) FAKHRY-SMITH S; (GAFF-I) GAFFAR A

CYC 23

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A1 19970130 (199711) * EN
                                              19p
                                                                     <--
PΙ
     WO 9702805
                                                    A61K007-20
        RW: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
        W: AU BR CA MX
                  A 19970210 (199724)
                                                     A61K007-20
                                                                     <--
     AU 9661803
     US 5648064
                  A 19970715 (199734)
                                               6р
                                                     A61K007-16
                                                                     <---
                  A1 19980429 (199821) EN
                                                     A61K007-20
     EP 837670
                                                                     <--
         R: AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE
     AU 699873 B 19981217 (199911)
                                                    A61K007-20
                                                                     <--
                                                                     <--
                  A 19990706 (199938)
                                                    A61K007-20
     BR 9609811
                 A1 19980301 (200002)
                                                    A61K007-20
                                                                     <--
     MX 9710224
                                                                     <---
     MX 204053
                  B 20010903 (200239)
                                                     A61K007-20
ADT WO 9702805 A1 WO 1996-US10506 19960618; AU 9661803 A AU 1996-61803
     19960618, WO 1996-US10506 19960618; US 5648064 A US 1995-499532 19950707;
     EP 837670 A1 EP 1996-919469 19960618, WO 1996-US10506 19960618; AU 699873
     B AU 1996-61803 19960618; BR 9609811 A BR 1996-9811 19960618, WO
     1996-US10506 19960618; MX 9710224 A1 MX 1997-10224 19971216; MX 204053 B
     MX 1997-10224 19971216
FDT AU 9661803 A Based on WO 9702805; EP 837670 A1 Based on WO 9702805; AU
     699873 B Previous Publ. AU 9661803, Based on WO 9702805; BR 9609811 A
     Based on WO 9702805
                      19950707
PRAI US 1995-499532
    EP 237111; US 5032178; US 5194416; US 5302374
IC
     ICM A61K007-16; A61K007-20
     ICS
         A61K007-24
          9702805 A UPAB: 19970313
AB
     A method of whitening stained or discoloured teeth in the oral cavity
```

A method of whitening stained or discoloured teeth in the oral cavity comprises applying a two component whitening compsn. The compsn comprises a first component comprising a peroxygen cpd in a vehicle and a second component comprising a manganese coordination complex cpd in a vehicle. The two components are maintained separately until dispensed and mixed prior to application to the teeth. The manganese cpd interacts with the peroxygen cpd and activates it to cause accelerated release of active oxygen and allowing the mixed components to remain on the teeth for sufficient time to effect rapid whitening. Also claimed is a two component whitening dentrifice compsn which exhibits rapid whitening of stained or discoloured teeth and comprising a first component comprising a peroxygen cpd in a vehicle and a second component comprising a manganese coordination complex cpd in a vehicle. The two components are maintained separately until dispensed and mixed prior to application to the teeth.

Advantage - The compsn is more effective than existing prods available to the consumer. Active oxygen is released quickly and in large quantities facilitating convenient effective home use by the consumer as well as professional use by the dentist.

Dwg.0/0

FS CPÍ

FA AB; DCN

MC CPI: D08-A; E05-L03A; E31-E; E35-S

ABEQ US 5648064 A UPAB: 19970820

A method of whitening stained or discoloured teeth in the oral cavity which comprises applying to the teeth a two component whitening composition, which will whiten stained or discoloured teeth, when applied to it, the composition being comprised of a first component containing in a vehicle a safe amount of a peroxygen compound effective to whiten teeth, and a second component containing a manganese coordination complex compound in a vehicle, the manganese compound being present in the vehicle in an amount effective to activate the peroxygen compound, the first and second components being maintained separate from each other until dispensed for application to the teeth, dispensing and mixing the separately maintained components so that the manganese compound of the second component interacts with the peroxygen compound of the first component whereby the breakdown of the peroxygen compound and the release of active oxygen is accelerated and then allowing the mixed components to remain on the teeth for a time sufficient to effect rapid whitening of it.

Dwg.0/0

```
L142 ANSWER 14 OF 40 WPIX (C) 2002 THOMSON DERWENT
ΑN
     1995-344002 [44]
                        WPIX
CR
     1994-255246 [31]
DNC C1995-151228
TΙ
     Enzymatic aq. dentifrice containing over 10 per cent water - with a
     thickener to increase viscosity and stabilise against prodn. of
     hydrogen peroxide before use.
     A96 B05 D16 D21
DC
     PELLICO, M A
ΙN
PA
     (PELL-I) PELLICO M A
CYC
    1
                  A 19950926 (199544)*
                                               5p
                                                     A61K007-28
                                                                      <--
PΙ
     US 5453284
ADT
    US 5453284 A CIP of US 1993-10841 19930129, US 1994-283816 19940801
     US 5453284 A CIP of US 5336494
FDT
                      19940801; US 1993-10841
                                                 19930129
PRAI US 1994-283816
IC
     ICM A61K007-28
          5453284 A UPAB: 19951109
AB
     US
     An aq. enzymatic dentifrice (I) of water content over 10 wt.% contains,
     per gram (I): (a) oxidisable substrate, 0.015-0.6 millimoles; (b)
     oxidoreductase enzyme specific to the substrate for producing
     hydrogen peroxide in application of (I), 0.5-5000 IU;
     and (c) non-toxic, ambient, water soluble-thickener, in amt. to provide
     (I) with a viscosity of 800-75,000 cps, to stabilise (I) against prodn. of
     hydrogen peroxide prior to oral application.
          ADVANTAGE - In prior dentifrices containing (a) and (b), the water
     content has been limited to not more than 10 wt.% to provide maximum
    stability and shelf life. Present compsn. contains a higher amt. of water
     to improve application characteristics, and stability is provided by
     adding (c) to increase the viscosity of the dentifrice, and stabilise it.
     Dwg.0/0
     CPI
FS
FΑ
     AB; DCN
     CPI: A12-V04B; B04-L03A; B10-A07; B12-M02A; B14-N06; D05-A02A; D08-B08
MC
L142 ANSWER 15 OF 40 WPIX (C) 2002 THOMSON DERWENT
ΑN
     1995-030263 [04]
                       WPIX
     1995-357956 [46]; 1996-424611 [42]
CR
DNC C1995-013584
     Two-compartment anti-tartar dental compsns. -
TΙ
     comprising zinc salt in one compartment, and a bi carbonate in another
     compartment.
DC
     D21
     BARROW, S R; RYLES, C W; WILLIAMS, D R
ΙN
     (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV; (CHEO) CHESEBROUGH PONDS USA CO
PΑ
CYC
    17
PΙ
     US 5372803
                   A 19941213 (199504) * EN
                                               5p
                                                     A61K007-18
                                                                      <--
                                                     A61K007-16
                  A2 19950322 (199516) EN
                                                                      <--
     EP 643957
         R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE
                                                                     <--
     CA 2130606
                  A 19950303 (199522)
                                                     A61K007-16
     EP 643957
                   A3 19970122 (199713)
                                                     A61K007-18
                                                                     <--
     CA 2130606
                   C 20010220 (200113)
                                        EN
                                                     A61K007-16
                                                                     <--
                                                     A61K007-16
     EP 643957
                   B1 20011024 (200169)
                                        EN
                                                                      <--
         R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE
                                                                      <--
                   E 20011129 (200202)
                                                     A61K007-16
     DE 69428753
                                                     A61K007-16
                                                                     <--
                   T3 20020316 (200227)
     ES 2165373
ADT US 5372803 A US 1993-116094 19930902; EP 643957 A2 EP 1994-202410
     19940823; CA 2130606 A CA 1994-2130606 19940822; EP 643957 A3 EP
     1994-202410 19940823; CA 2130606 C CA 1994-2130606 19940822; EP 643957 B1
     EP 1994-202410 19940823; DE 69428753 E DE 1994-628753 19940823, EP
     1994-202410 19940823; ES 2165373 T3 EP 1994-202410 19940823
FDT DE 69428753 E Based on EP 643957; ES 2165373 T3 Based on EP 643957
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PRAI US 1993-116094
                      19930902
REP EP 520545; EP 641558; GB 2159412; WO 9502392
IC
     ICM A61K007-16; A61K007-18
     ICS
         A61K007-20
          5372803 A UPAB: 20020429
AB
     US
     A dental prod. in a dual compartment dispenser
     comprises: (a) a compartment (C1) contg. 0.1-10% of a Zn salt (I), and
     0.1-10% of a peroxygen cpd. (II) or a 2-20C carboxylic acid (III) in a
     carrier; and (b) another compartment (C2) comprising 0.5-80% of a
     bicarbonate salt (IV) in a carrier.
          ADVANTAGE - The storage-stable compsn. incorporating a bicarbonate
     has improved anti-tartar activity while minimising taste problems.
     Dwg.0/0
FS
     CPI
FΑ
     AΒ
     CPI: D08-A; D08-B08
MC
L142 ANSWER 16 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1995-030262 [04]
                       WPIX
DNC C1995-013583
     Oral peroxide compsn., promoting gum health - includes fluoride-contg.
TΙ
     cpd. to inhibit dental caries, and zinc cpd. as stabiliser to prevent per
    oxygen cpd. decomposition by fluoride cpd..
     A96 B05 B06 D21 E19 E37
DC.
     BARROW, S R; RYLES, C W; WILLIAMS, D R
IN
     (UNIL) UNILEVER NV; (UNIL) UNILEVER PLC; (CHEO) CHESEBROUGH PONDS USA CO
PΑ
CYC
    17
PΙ
     US 5372802
                   A 19941213 (199504)*
                                               5p
                                                     A61K007-16
                                                                      <--
                   A1 19950308 (199514) EN
                                                     A61K007-20
                                                                      <--
     EP 641558
         R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE
                                                     A61K007-20
                   A 19950303 (199522)
                                                                      <--
     CA 2130609
                                                     A61K007-20
     EP 641558
                   B1 19981111 (199849)
                                        EN
                                                                      <--
         R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE
                                                                     <--
                                                     A61K007-20
     DE 69414501
                   E 19981217 (199905)
                                                     A61K007-20
                                                                     <--
     ES 2124363
                   T3 19990201 (199911)
                                                                      <--
                                                     A61K007-20
     CA 2130609
                   C 19990302 (199927)
     US 5372802 A US 1993-116092 19930902; EP 641558 A1 EP 1994-202405
     19940823; CA 2130609 A CA 1994-2130609 19940822; EP 641558 B1 EP
     1994-202405 19940823; DE 69414501 E DE 1994-614501 19940823, EP
     1994-202405 19940823; ES 2124363 T3 EP 1994-202405 19940823; CA 2130609 C
     CA 1994-2130609 19940822
     DE 69414501 E Based on EP 641558; ES 2124363 T3 Based on EP 641558
PRAI US 1993-116092
                      19930902
     2.Jnl.Ref; EP 411211; EP 508524; RO 78097; RO 83061; US 251146; US
     4226851; US 4289755; US 5041280; US 5094845; US 5217710; WO 9111987
IC
     ICM A61K007-16; A61K007-20
     ICS
         A61K007-18; A61K033-40
     US
          5372802 A UPAB: 19950412
AB
     Oral compsn. comprises (i) 0.1-10 wt.% peroxygen cpd. (POC) comprising
     urea-, calcium- or hydrogen peroxide or salts of
     perborate, persilicate, perphosphate or percarbonate; (ii) 0.01-5 wt.%
     physiologically acceptable fluoride (FC) contg. cpd. comprising NaF, KR,
     CaF2, MgF2, stannous fluoride, stannous monofluorophosphate, sodium
     monofluorophosphate or copper fluorides to inhibit caries formation on
     teeth; and (iii) 0.01-10 wt.% zinc cpd.(s) comprising zinc borate,
     bromide, carbonate, hexafluorosilicate, pyrophosphate, silicate, sulphate,
     titanate, acetate, benzoate, citrate, glycinate, lactate,
     phenolsulphonate, salicylate, tartrate, acetylacetonate, maleate,
     succinate, ascorbate or gluconate, to stabilise the peroxygen cpd. against
     decompsn. by the fluoride cpd.
          USE - The compsn. is used to promote health in the oral cavity.
          ADVANTAGE - The compsn. has a consumer acceptable taste and maintains
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its colour e.g. blue. Peroxide decompsn. is inhibited while maintaining a

clear gel and the stabilising system has no adverse corrosive effect upon stainless steel mfg. vessels. The compsn. inhibits caries and promotes gum health. Pref., the peroxide and bicarbonate compsns. each contg. a fluoride cpd. are delivered simultaneously from separate compartments of a dual compartment dispenser. Dwg.0/0 FS CPI FΑ AB; DCN MC CPI: A12-V01; A12-V04B; B05-A01B; B05-A03A; B05-B02A3; B05-B02C; B05-C04; B05-C07; B05-C08; B10-A13C; B12-M03; B14-N06; B14-S08; D08-A05; E05-S; E05-T; E10-A13B2; E31-E L142 ANSWER 17 OF 40 WPIX (C) 2002 THOMSON DERWENT 1994-255246 [31] WPIX AN 1995-344002 [44] CR DNC C1994-116717 Chewable prod. for cleaning teeth of pets - prepd. by coating with TΙ thickened enzyme and substrate solns. avoids need for brushing. DC B04 C03 D16 D21 IN PELLICO, M A (PELL-I) PELLICO M A PΑ CYC 7p A61K037-50 A 19940809 (199431)* ΡI US 5336494 US 5336494 A US, 1993-10841 19930129 ADT 19930129 PRAI US 1993-10841 ICM A61K037-50 IC AB US 5336494 A UPAB: 19951114 Chewable enzymatically coated pet prod. comprising raw hide, beef hide, or non-toxic plastic, on which a dry coating is developed from an enzymatic soln. comprising: (a) a fluid component, contg. water and non-toxic water soluble thickener in amt. to give the final soln. a viscosity of 1000-50000 cP; and (b) an enzymatic component, contg., per g of (a), $0.015-0.6 \ \text{mM}$ of oxidisable substrate and $0.5-5000 \ \text{IU}$ of oxidoreductase enzyme specific for the substrate, to produce hydrogen peroxide on chewing; is new. USE/ADVANTAGE - The prod. gives antibacterial and bacteriostatic effects in the mouth on chewing. The prod. avoids the need for daily brushing with toothpaste. This duty is easy to neglect and some dogs, partic. older dogs, resist teeth brushing. Unlike prior art prods., the enzyme stability is maintained in an aq. environment. Dwg.0/0 CPI FS FA AB; DCN CPI: B04-B04L; C04-B04L; B04-C02; C04-C02; B04-C03; C04-C03; B04-L03A; MC C04-L03A; B14-A01; C14-A01; B14-N06; C14-N06; C04-C03; C04-L03; C14-A01; D05-C03C; D08-A05 L142 ANSWER 18 OF 40 WPIX (C) 2002 THOMSON DERWENT AN 1994-035240 [04] WPIX CR 1994-091081 [11] DNC C1994-042032 DNN N1994-071259 Disinfecting contact lenses esp. soft lenses - by placing hydrogenΤI peroxide in case chamber then neutralising soln. with catalase tablet. D16 D22 E36 P34 P81 DC NIELSEN, T B; GREGERSEN, N H; NIELSON, T B ΙN (NIEL-I) NIELSEN T B PACYC 47 G02C013-00 A1 19940120 (199404)* EN PΙ WO 9401800 11p RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE W: AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN A 19940121 (199411) TW 219391 Зр

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G02C013-00
     DK 9200885
                  A 19940107 (199412)
                 A 19940427 (199421)
                                             11p
                                                    G02C000-00
     ZA 9304844
                  A 19940131 (199422)
     AU 9344167
                  B 19940530 (199425)
     DK 168746
                                                    G02C013-00
     NO 9500042
                  A 19950105 (199512)
                                                    G02C000-00
                  A 19950104 (199513)
     FI 9500043
                  A 19940126 (199521)
     CN 1081259
                  A1 19950426 (199521)
     EP 649541
                                        ΕN
         R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
     JP 07508600
                 W 19950921 (199546)
                                              4p
                                                    G02C013-00
                  B 19960118 (199620)
     AU 665846
                  A 19960726 (199635)
     NZ 253668
                  T 19960129 (199738)
     HU 71726
     EP 649541
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                  B1 19970910 (199741)
                                        EN
         R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE '
     DE 69313857 E 19971016 (199747)
     ES 2108876
                  T3 19980101 (199809)
                                                    A61K038-44
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                  A 19980602 (199829)
     US 5759540
                  A 19981208 (199903)
     BR 9306682
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                 B 20000228 (200020)
     HU 217534
                 B 19980626 (200032)
                                                    G02C013-000
     MX 189227
     NO 308436
                  B1 20000911 (200052)
                                                    G02C013-00
                                                    G02C013-00
     KR 275197
                  B 20001215 (200175)
                  B2 20020123 (200207) EN
     EP 649541
                                                    G02C013-00
         R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
ADT WO 9401800 A1 WO 1993-DK211 19930628; TW 219391 A TW 1993-105331 19930703;
     DK 9200885 A DK 1992-885 19920706; ZA 9304844 A ZA 1993-4844 19930706; AU
     9344167 A AU 1993-44167 19930628; DK 168746 B DK 1992-885 19920706; NO
     9500042 A WO 1993-DK211 19930628, NO 1995-42 19950105; FI 9500043 A WO
     1993-DK211 19930628, FI 1995-43 19950104; CN 1081259 A CN 1993-107972
     19930706; EP 649541 A1 EP 1993-914635 19930628, WO 1993-DK211 19930628; JP
     07508600 W WO 1993-DK211 19930628, JP 1994-502830 19930628; AU 665846 B AU
     1993-44167 19930628; NZ 253668 A NZ 1993-253668 19930628, WO 1993-DK211
     19930628; HU 71726 T WO 1993-DK211 19930628, HU 1995-16 19930628; EP
     649541 B1 EP 1993-914635 19930628, WO 1993-DK211 19930628; DE 69313857 E
     DE 1993-613857 19930628, EP 1993-914635 19930628, WO 1993-DK211 19930628;
     ES 2108876 T3 EP 1993-914635 19930628; US 5759540 A WO 1993-DK211
     19930628, US 1995-362527 19950329; BR 9306682 A BR 1993-6682 19930628, WO
     1993-DK211 19930628; HU 217534 B WO 1993-DK211 19930628, HU 1995-16
     19930628; MX 189227 B MX 1993-4023 19930705; NO 308436 B1 WO 1993-DK211
     19930628, NO 1995-42 19950105; KR 275197 B WO 1993-DK211 19930628, KR
     1995-700036 19950106; EP 649541 B2 EP 1993-914635 19930628, WO 1993-DK211
     19930628
FDT AU 9344167 A Based on WO 9401800; DK 168746 B Previous Publ. DK 9200885;
     EP 649541 A1 Based on WO 9401800; JP 07508600 W Based on WO 9401800; AU
     665846 B Previous Publ. AU 9344167, Based on WO 9401800; NZ 253668 A Based
     on WO 9401800; HU 71726 T Based on WO 9401800; EP 649541 B1 Based on WO
     9401800; DE 69313857 E Based on EP 649541, Based on WO 9401800; ES 2108876
     T3 Based on EP 649541; US 5759540 A Based on WO 9401800; BR 9306682 A
     Based on WO 9401800; HU 217534 B Previous Publ. HU 71726, Based on WO
     9401800; NO 308436 B1 Previous Publ. NO 9500042; KR 275197 B Previous
     Publ. KR 95702711, Based on WO 9401800; EP 649541 B2 Based on WO 9401800
                      19920706; MY 1993-1289
                                                19930702
PRAI DK 1992-885
    EP 209071; US 4011941; US 4826658
IC
     ICM A61K038-44; G02C000-00; G02C013-00; G02C013-000
         A01N059-00; A01N063-00; A61K009-14; A61L002-018;
          A61L002-18; A61L012-08; A61L012-12; C11D007-18; C12N011-00;
          G02C007-04
ΑB
          9401800 A UPAB: 19971030
     Contact lenses, partic. soft lenses, are disinfected by placing in
     H2O2 soln. (10) in a case chamber (4) and the soln. is neutralised
     by a catalase tablet (7) which is not coated and is placed in a
     separate chamber (6) or special position. Admission of
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soln. to this chamber or position is controlled by the generation of oxygen by reaction of soln. and enzyme.

Also claimed is a case comprising chambers for right and left lenses, and a channel between these and a chamber for the tablet. An opening for free access of soln. is located just under the tablet, this controlling neutralisation speed by regulating the air stream between the chambers.

 ${\tt USE/ADVANTAGE}$ - The method provides simpler control not requiring the use of a coated tablet.

Dwg.1,2/9

FS CPI GMPI

FA AB; GI; DCN

MC CPI: D05-A01A; D05-A02A; D09-C01A; E31-E

ABEQ EP 649541 B UPAB: 19971013

A method for disinfection of contact lenses comprising the steps of placing the contact lenses (10) in a cleaning fluid in th form of hydrogen peroxide in a container; and carrying out neutralization of th cleaning fluid by means of a tablet (7) containing a neutralization agent catalase, characterised by the step of placing aid tablet containing the enzyme catalase, in a separate chamber (6) or in a special position within said container, such that the admission for the cleaning fluid to this chamber or this position is controlled b the generation of oxygen by the reaction between the cleaning fluid and the enzyme catalyst, whereby disinfection of the contact lenses (10) and neutralization of the cleaning fluid, respectively are controlled by means of said tablet (7).

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L142 ANSWER 19 OF 40 WPIX (C) 2002 THOMSON DERWENT
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AN 1993-336036 [42] WPIX

CR 1994-073979 [09]

DNN N1993-259795 DNC C1993-148619

TI Package for effervescent two component mouth-wash compsn. - with closure permitting simultaneous uniform dispensing of the two components.

DC B07 D21 E34 E36 Q32 Q33

IN GENTILE, J L; WILLIAMS, D R; ZIEMKIEWICZ, A G

PA (CHEO) CHESEBROUGH PONDS USA CO; (UNIL) UNILEVER NV; (UNIL) UNILEVER PLC

CYC 47

PI US 5252312 A 19931012 (199342)* 9p B65D035-22 <-WO 9407748 A2 19940414 (199416) B65D001-04 <-RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

W: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN

B65D001-04 <---AU 9348302 A 19940426 (199432) WO 9407748 A3 19940623 (199517) B65D035-22 <--B65D001-04 EP 662911 A1 19950719 (199533) ΕN <--R: CH DE ES FR GB IT LI NL SE B65D083-00 <--A 19940817 (199714) CN 1090822 B65D001-04 B1 19970326 (199717) ΕN 12p <--EP 662911 R: CH DE ES FR GB IT LI NL SE E 19970430 (199723) B65D001-04 <--DE 69309292 T3 19970701 (199736) B65D001-04 <--ES 2101344

ADT US 5252312 A US 1992-954848 19920930; WO 9407748 A2 WO 1993-GB2023 19930928; AU 9348302 A AU 1993-48302 19930928; WO 9407748 A3 WO 1993-GB2023 19930928; EP 662911 A1 EP 1993-921019 19930928, WO 1993-GB2023 19930928; CN 1090822 A CN 1993-114186 19930929; EP 662911 B1 EP 1993-921019 19930928, WO 1993-GB2023 19930928; DE 69309292 E DE 1993-609292 19930928, EP 1993-921019 19930928, WO 1993-GB2023 19930928; ES

2101344 T3 EP 1993-921019 19930928 DT AU 9348302 A Based on WO 9407748; EP 662911 A1 Based on WO 9407748; EP 662911 B1 Based on WO 9407748; DE 69309292 E Based on EP 662911, Based on WO 9407748; ES 2101344 T3 Based on EP 662911

PRAI US 1992-954847 19920930; US 1992-954848 19920930

REP GB 2248820; US 3705661; US 4148417; US 4884703; WO 9204007

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rose - 10 / 045184
IC
     ICM B65D001-04; B65D035-22; B65D083-00
     ICS A61K007-20; A61K009-46; B65D051-24
          5252312 A UPAB: 19940613
AB
     A packaged effervescible mouthwash comprises first and second liquid
     components including respectively hydrogen peroxide
     and sodium bicarbonate as functional ingredients.
          The package consists of a container with two discrete compartments
     each with an upper outlet end. A closure covers the compartments and
     includes an inclined crown with a peripheral skirt sized to engage a
     surface of the container in a fluid-tight manner. Two pouring spouts
     extend upwardly from the upper surface of the crown each connecting with
     one of the compartments.
          A flat cover is secured to an upper portion of the crown. It has two
     downwardly depending plugs receivable in corresponding through openings in
     the crown to close the container.
          USE/ADVANTAGE - The mouthwash generates fresh effervescence at the
     time of use. The package gives improved stability to premature reaction
     and improved dispensing. Oral hygiene components e.g. anti-caries,
     anti-calculus, anti-plaque and antimicrobial agents may be added as
     required.
     Dwg. 2/4
FS
     CPI GMPI
FΑ
     AB; GI; DCN
     CPI: B05-C04; B05-C08; B11-C06; B12-L04; D08-B08;
MC
          E31-E; E33-D
ABEQ EP
           662911 B UPAB: 19970424
     A package (2) for dispensing at least two liquid components
     simultaneously, the package (2) comprising a container (4) for the
     components, the container having at least two discrete compartments (8,10)
     each with an upper outlet end (12) and a closure system (6) for closing
     the container (4) over the outlet end (12) of the compartments (8,10)
     characterised in that the closure (6) comprises: an inclined crown portion
     (14) having a peripheral skirt portion (15) depending downwardly from an
     outer edge of the crown (14) the skirt (15) portion being of sufficient
     size to engage a surface of the container (4) in a fluid tight manner; at
     least two pouring spouts (16,18) extending upwardly from the upper surface
     of the inclined crown portion (14) toward the lower edge thereof; the
     spouts (16,18) being substantially oval in shape and having their
     longitudinal axes parallel and extending between the lower and upper edges
     of the inclined crown portion (14) in the direction of inclination
     thereof; each pouring spout (16,17) being provided with a through opening
     (20,22) which extends from the upper end of the spout (16,18), through the
     crown (14) and into a compartment (8,10) and a cover (36) for securement
     to the crown portion (14) being hingedly attached to the crown toward an
     upper edge thereof, the cover (36) being provided with at least two
     depending plugs (38) receivable in corresponding through openings (20,22)
     of the crown (14) so as to close the container (4).
     Dwg.2/4
L142 ANSWER 20 OF 40 WPIX (C) 2002 THOMSON DERWENT
AN
     1993-287496 [36]
                       WPIX
                        DNC C1993-128258
DNN N1993-221193
     Dental bleach system - comprised of conc. hydrogen
TI
    peroxide in ampoule and fumed silica in tray, mixer and
     applicator.
DC
     D21 P32
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IN

PA

PI

CYC 1

HAYNIE, M B

US 5240415

PRAI US 1990-534715 ICM A61C015-00

(HAYN-I) HAYNIE M B

A 19930831 (199336)*

ADT US 5240415 A CIP of US 1990-534715 19900607, US 1992-922319 19920730 19900607; US 1992-922319

A61C015-00

6p

19920730

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AB
          5240415 A UPAB: 19931130
     US
     System comprises: (a) a kit suitable for a single patient and consisting
     of a tray with at least 2 compartments (1 contg. a
     sealed container of 30-35% by vol. H2O2 (I), and another
     comprising a mixing chamber and contg. fumed silica (II)); (b) means for
     mixing (I) and (II) to afford a paste; (c) an applicator to apply the
     paste to teeth; and (d) a cover sealed to the tray to allow retrieval of
     the (I) before exposing (II).
          The (I) container is pref. an ampoule with a frangible neck. Mixer is
     pref. a spatula (pref. in a 3rd compartment), which also serves as the
     applicator. Amts. of (I) and (II) are pref. sufficient to treat a single
     patient.
          ADVANTAGE - The system provides dental professionals with a high
     concn. of H2O2 in a safe, effective and easily controllable
     vehicle for delivery to the reqd. site. The (I)/(II) paste is readily
     handled, and acts as bleach and a polishing agent at the same time.
     Dwg.1/2
     Dwg.1/2
FS
     CPI GMPI
FA
     AΒ
MC
     CPI: D08-B08
L142 ANSWER 21 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1993-196188 [24]
                       WPIX
DNC C1993-086939
     Dual-compartment dental dispenser for caries
TΙ
     prevention - contains peroxy cpd., fluoride and tin cpd. as peroxide
     stabiliser in first compartment.
DC
     B06 B07 D21 E37
     RYLES, C W; WILLIAMS, D R; ZIEMKIEWICZ, A G; ZIEMBIEWICZ, A G; RYLES, C
ΙN
     (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV; (UNIL) UNILEVER LTD; (CHEO)
PA
     CHESEBROUGH PONDS USA CO
CYC
                                               5p
                   A 19930608 (199324)*
                                                     A61K007-16
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ΡI
     US 5217710
                                                     A61K007-20
                   A1 19930908 (199336) EN
     EP 559262
                                               q8
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        R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE
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     BR 9300754
                  A 19930908 (199340)
                                                     A61K007-18
     CA 2090848
                   A 19930906 (199348)
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     AU 9334022 . A 19931028 (199350)
                                                     A61K007-20
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                  A 19940322 (199416)
                                               бр
                                                     A61K007-16
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     JP 06080544
     ZA 9301598
                   A 19941130 (199502)
                                              22p
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     AU 667341
                   B 19960321 (199619)
                                                     A61K007-20
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                   B1 19960417 (199620) EN
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     CA 2090848
                   С
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     PH 29457
                   A 19960115 (199907)
                                                     A61K007-20
    US 5217710 A US 1992-846315 19920305; EP 559262 A1 EP 1993-200415
     19930215; BR 9300754 A BR 1993-754 19930304; CA 2090848 A CA 1993-2090848
     19930302; AU 9334022 A AU 1993-34022 19930305; JP 06080544 A JP 1993-42386
     19930303; ZA 9301598 A ZA 1993-1598 19930305; AU 667341 B AU 1993-34022
     19930305; EP 559262 B1 EP 1993-200415 19930215; DE 69302202 E DE
     1993-602202 19930215, EP 1993-200415 19930215; CA 2090848 C CA
     1993-2090848 19930302; PH 29457 A PH 1993-45791 19930301
FDT AU 667341 B Previous Publ. AU 9334022; DE 69302202 E Based on EP 559262
PRAI US 1992-846315
                      19920305
    EP 202359; EP 311260; GB 2170406; GB 2216005; US 4528180; US 4849213; US
REP
     4980152
     ICM A61K007-16; A61K007-18; A61K007-20
IC
     ICS
         A61K033-40; A61K047-02
AB
          5217710 A UPAB: 19931116
       Dual-compartment dispenser dental prod., for
     maintaining protection against caries formation, comprising: (A) a first
```

compartment contg.: (i) 0.1-10% by wt. of a peroxygen cpd., which provides H2O2; (ii) a physiologically-acceptable F contg. cpd. to inhibit formation of caries on teeth; and (iii) a tin cpd., other than SnF2, to stabilise (i) against decomposition by (ii); and (B) a second compartment contg.: (i) 0.1-30% by wt. of an alkali metal bicarbonate; and (ii) a F contg. anticaries cpd., in the same amt. as in (A); is new.

USE/ADVANTAGE - The prod. is for caries inhibition and promotion of gum health. H2O2 is destabilised by both fluorides and bicarbonates, necessitating dual compartments; further, the fluoride must be given in controlled amt. so that all the fluoride should not be in the bicarbonate compartmennt. As tin cpds., esp. stannous cpds., stabilise H2O2 against fluoride decomposition, fluoride can be present with the tin and peroxy cpds. without effect on prod. stability, thus solving the regulatory problem. Also for regulatory purposes, the tin cpd. is desirably not SnF2, most pref. SnCl2, in amt. 0.005-5% by wt..

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B05-A02; B12-L04; B12-M11B; D08-A05; E10-A04B;

E31-E; E31-K05D; E33-B; E33-D; E35-H

ABEQ EP 559262 A UPAB: 19931122

Dual-compartment dispenser dental prod., for maintaining protection against caries formation, comprising: (A) a first compartment contg.: (i) 0.1-10% by wt. of a peroxy cpd., which provides H2O2; (ii) a physiologically-acceptable F contg. cpd. to inhibit formation of caries on teeth; and (iii) a tin cpd., other than SnF2, to stabilise (i) against decomposition by (ii); and (B) a second compartment contg.: (i) 0.1-30% by wt. of an alkali metal bicarbonate; and (ii) a F contg. anticaries cpd., in the same amt. as in (A); is new.

USE/ADVANTAGE - The prod. is for caries inhibition and promotion of gum health. H2O2 is destabilised by both fluorides and bicarbonates, necessitating dual compartments; further, the fluoride must be given in controlled amt. so that all the fluoride should not be in the bicarbonate compartment. As tin cpds., esp. stannous cpds., stabilise H2O2 against fluoride decomposition, fluoride can be present with the tin and peroxy cpds. without effect on prod. stability.

Dwg.0/0 ABEQ EP 559262 B UPAB: 19960520

A dental product for maintaining protection against caries formation which is a dual-compartment dispenser comprising: (A) a first compartment of the dual-compartment dispenser containing a first composition comprising (i) from 0.1 to 10% by weight of a peroxygen compound from provides hydrogen peroxide; (ii) a physiological-acceptable fluoride-containing anti-caries compound present in an amount of from 0.01 to 5% by weight; and (iii) a tin compound other than stannous fluoride present in an amount of from 0.005 to 5% by weight, and (B) a second compartment of the dual-compartment dispenser containing second composition comprising: (i) from 1 to 30% by weight of an alkali metal bicarbonate based on the total combined dental product; and (ii) the same fluoride anti-caries compound as in the first composition, in an amount identical to the amount thereof in the first composition.

Dwg.0/0

L142 ANSWER 22 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1992-064365 [08] WPIX

CR 1993-075671 [09]

DNC C1992-029459

TI Two-component tooth-paste compsns. - comprises per oxygen cpd. bi-carbonate unstable flavour as gel, and bi carbonate-menthol paste.

DC B05 D21 E14

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RYLES, C W; WILLIAMS, D R
ΙN
     (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV; (UNIL) UNILEVER LTD; (CHEO)
PA
     CHESEBROUGH PONDS INC
CYC
    5
PΙ
     US 5085853
                   A 19920204 (199208)*
                                              10p
                                                     A61K007-20
                                                                     <--
                   A1 19921230 (199301)
                                         ΕN
     EP 520545
                                                                     <--
                                                     A61K007-20
     CA 2071311
                   A 19921225 (199316)
                                               9p
                                                                      <--
                   A 19941011 (199445)
                                                     A61K007-16
     JP 06287121
                   B1 19950104 (199506)
                                         EN
                                              10p
                                                     A61K007-20
                                                                      <--
     EP 520545
                                                                      <--
     DE 69201113
                   E 19950216 (199512)
                                                     A61K007-20
                                                     A61K007-20
                                                                     <--
     ES 2067292
                   T3 19950316 (199517)
                   C 19961217 (199710)
                                                     A61K007-20
                                                                     <--
     CA 2071311
ADT EP 520545 A1 EP 1992-201718 19920612; CA 2071311 A CA 1992-2071311
     19920616; JP 06287121 A JP 1992-166216 19920624; EP 520545 B1 EP
     1992-201718 19920612; DE 69201113 E DE 1992-601113 19920612, EP
     1992-201718 19920612; ES 2067292 T3 EP 1992-201718 19920612; CA 2071311 C
     CA 1992-2071311 19920616
    DE 69201113 E Based on EP 520545; ES 2067292 T3 Based on EP 520545
PRAI US 1991-719871
                      19910624
    GB 2170406; US 3937803; US 4528180; US 4537778
     ICM A61K007-16; A61K007-20
IC
     ICS A61K033-40
ICA
     C11B009-00
          5085853 A UPAB: 19931006
AB
     US
     Oral toothpaste compsn. comprises (by wt.): (a) a gel consisting of
     0.1-10% (of (a)) of a peroxygen cpd. (I), and a flavour agent (II)
     incompatible with bicarbonate salts (Me salicylate, cinnamic aldehyde,
     clove soil or mixts.); and (b) a paste comprising 0.5-80% (of (b)) of a
     bicarbonate salt (III), and menthol (IV) as a flavour agent compatible
     with (III), but no (II). Components (a) and (b) are held in
     separate compartments of a dual
     compartment dispenser, and are present in ratio (a):(b) =
     2-1:1-20.
          Gel (a) contains (by wt.) 20% 'Pluronic F127' (RTM), 40% glycerol,
     4.285% H2O2 (as 35%), 0.5% Me salicylate, 0.005% FE&C Blue,
     0.15% H3PO4 (as 85% w/w), and H2O (to 100%). Paste (b) contains (by wt.)
     48.71% Polyol II, 15% 'Syloid 63XX' (RTM), 10% NaHCO3, 5% PEG 32, 4.6%
     'Sylox 15x' (RTM), 2.98% Na lauryl sulphate, 2.85% SD alcohol 38B, 0.8%
     cellulose qum, 0.5% (IV), 0.5% Na saccharin, 0.46% NaF, 0.3% TiO2, and H2O
     (to 100%).
          ADVANTAGE - The peroxide-bicarbonate dual component toothpaste is
     formulated with a relatively wide range of flavours. Neither the flavours,
     nor the toothpaste itself are degraded, even on extended storage.
     0/0
FS
     CPI
     AB; DCN
FA
     CPI: B04-B01C1; B05-C04; B05-C08; B10-D01; B10-E02; B10-E04D;
          B12-M02A; D08-A05; D08-B08; E10-D01D; E10-E02F;
          E31-E
ABEQ EP
           520545 B UPAB: 19950214
     An oral composition comprising: (A) a first component comprising: (i) a
     peroxygen compound present in an amount from 0.1 to 10% by weight of the
     first component; (ii) a first flavour agent which is reactively
     incompatible with bicarbonate salts, said first flavour agent being
     present in an effective amount to impart a flavour taste; (B) a second
     component comprising: (i) a bicarbonate salt present in an amount from 0.5
     to 80% by weight of the second component; (ii) a second flavour agent
     which is reactively compatible with said bicarbonate salt, said second
     flavour agent being present in an effective amount to impart a flavour
    taste, said components being held in separate areas of a container for
     said oral composition, and relative amounts of said first and second
     components ranging from 2:1 to 1:20.
     Dwg. 0/0
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L142 ANSWER 23 OF 40 WPIX (C) 2002 THOMSON DERWENT
AN
     1992-006799 [01]
                        WPIX
                        DNC C1992-002868
DNN
    N1992-005274
     Foamable fluoride compsn. for pressurised dispensing - comprises water
ΤI
     soluble dental fluoride and foaming and acidifying agents, hydrofluoric
     acid and water.
DC
     A96 B06 D21 P32 P34
ΙN
     PELLICO, M A
     (PELL-I) PELLICO M A
PA
CYC
     US 5071637
PΙ
                 A 19911210 (199201)*
ADT US 5071637 A US 1989-418251 19891006
PRAI US 1989-418251
                      19891006
     A61C005-00; A61K007-18; A61L009-04
IC
          5071637 A UPAB: 19931006
AB
     US
     Foamable fluoride compsn. for pressurised dispensing into the trough of a
     dental tray as a dense, stable, non-flowable foam comprises: (a) water
     soluble dental fluoride in an amt. to provide the compsn. with 0.5-5 wt.%
     fluoride; (b) orally compatible, acid stable nonionic foaming agent
     comprising ethoxylated polyoxypropylene adduct of propylene glycol of ave.
     mol.wt. 3000-15000 and the ethoxylated portion comprising 30-80 wt.% of
     the molecular the nonionic foaming agent being present at 2.5-11 wt.%; (c)
     acidifying agent to give pH 3-4.5; (d) 0.05-0.2 wt.% HF; and (e) water to
     100 wt.%.
          Also claimed is a method for treating teeth comprising dispensing the
     above pressurised and foamable fluoride compsn. from an acid resistant
     aerosol container into the trough of a dental tray to form a fluoride foam
     within the trough, and superimposing the trough of the dental tray and its
     fluoride foam content about and into engagement with the teeth to be
     treated to effect fluoride uptake by the teeth.
          USE/ADVANTAGE - The compsns. contain less fluoride than prior art
     compsns. whilst achieving the same fluoride uptake.
     0/0
     CPI GMPI
FS
FΑ
     AB; DCN
     CPI: A10-E08A; A12-V04B; B04-C03C; B05-C07; B12-L03; B12-M01A; B12-M06;
MC
L142 ANSWER 24 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1989-277558 [38]
                        WPIX
ΑN
                        DNC C1989-122893
DNN N1989-211917
     Dental oral hygiene kit - has container for mixing baking soda and
TΙ
     oxygenating agent using tooth-brush head.
DC
     D21 Q34
PΑ
     (SCUO-I) SCUORZO K
CYC
    1
PΙ
     US 4852742
                   A 19890801 (198938)*
                                               q8
    US 4852742 A US 1988-281533 19881208
ADT
                      19871026; US 1988-281533
                                                 19881208
PRAI US 1987-112950
IC
     B65D069-00
          4852742 A UPAB: 19930923
AB
     US
     The kit comprises a housing to accommodate a toothbrush head, formed as a
     hexahedral parallelepiped and holding a measured amount of baking soda and
     a container with oxygenating agent, movement of the head within the
     housing mixing the baking soda and agent. An inward top surface on the
     housing provides an opening for the head while restricting its lateral
     movement.
          The container is pref. of similar shape to the housing and shares a
```

The container is pref. of similar shape to the housing and shares a common longitudinal side wall with it, so that the inward top surface is in a generally figure-8 shape. Alternatively, the baking soda may be in a cylindrical container and the oxygenating agent may be supplied in a container holding measured units. The a agent is pref. hydrogen

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peroxide.
          USE/ADVANTAGE - For treatment of swollen and infected gums,
     eliminates the inconvenience of measuring and mixing.
     0/8
FS
     CPI GMPI
FA
     AB
     CPI: D08-A05
MC
L142 ANSWER 25 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1988-306873 [43]
                        WPIX
                        DNC C1988-135788
DNN N1988-232800
     Pressurised therapeutic tooth paste dispenser - contg. tooth paste
TΤ
     including hydrogen peroxide, baking powder and salt,
     to treat periodontal infections.
DC
     D21 Q34
PA
     (FORD-I) FORD C W
CYC
    1
                   A 19881011 (198843)*
                                               5p
     US 4776500
PΙ
ADT US 4776500 A US 1983-501892 19830607
PRAI US 1983-501892
                      19830607
IC
     B65D083-00
          4776500 A UPAB: 19930923
AB
     US
     A therapeutic toothpaste dispenser comprises a hemetically sealed
     container capable of being pressurised. It contains a supply of a
     therapeutic toothpaste which includes hydrogen peroxide
     , sodium bicarbonate and sodium chloride. A valve controls the discharge
     of the toothpaste, and a propellant in the container causes discharge of
     the toothpaste on actuation of the valve. Pref. the dispenser includes a
     flexible nozzle which can be used to apply the paste directly into the
     mouth.
          USE/ADVANTAGE - The dispenser is particularly designed to supply a
     ready-mixed toothpaste for treatment of periodontal diseases. The use of
     the dispenser simplifies and reduces the time required in an antibacterial
     therapy for treating periodontal diseases.
     0/3
FS
     CPI GMPI
FA
     ΑB
MC
     CPI: D08-A05
L142 ANSWER 26 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1987-081115 [12]
                        WPIX
                        DNC C1987-033635
DNN N1987-061131
     Mixing two separate components in situ to form cosmetic compsn. - by
TΙ
     discharging simultaneously from separate flexible containers, using
     components of controlled viscosity.
     D21 J02 P24 P33 Q31 Q32 Q34 Q39
DC
     BOUIX, H; GROLLIER, J; PERITZ, L
IN
PA
     (OREA) L'OREAL SA
CYC
     DE 3630849
                   A 19870319 (198712)*
                                               α8
PT
     GB 2180215
                   A 19870325 (198712)
                   A 19870309 (198716)
     BE 905402
                   A 19870313 (198716)
     FR 2586913
     NL 8602284
                   A 19870401 (198718)
     CH 669110
                   A 19890228 (198912)
                                               7p
                   A 19890425 (198919)
     US 4823985
                   A 19880701 (198924)
     ES 2001946
                   B 19900530 (199022)
     GB 2180215
                   B 19881012 (199108)
     IT 1195156
ADT DE 3630849 A DE 1986-3630849 19860910; GB 2180215 A GB 1986-21580
     19860908; BE 905402 A BE 1986-905402 19860909; FR 2586913 A FR 1985-13387
     19850910; NL 8602284 A NL 1986-2284 19860910; US 4823985 A US 1988-218139
     19880713; ES 2001946 A ES 1986-1713 19860909
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PRAI FR 1985-13387 19850910

A45D034-00; A45D037-00; A61J000-00; A61K007-00; B01J004-00; B65B029-00; B65D030-22; B65D035-22; B65D081-32 ; B67B007-00; D01F000-00

AΒ 3630849 A UPAB: 19930922

Prepn. comprises mixing 2 separately conditioned components (A) and (B) delivered simultaneously from 2 containers which are provided with a deformable wall, so that successive pressing by the user results in simultaneous compression and discharge of components. The outlets of the 2 containers are adjacent or close to each other and arranged so that fluids meet when discharged, and the outlets can be opened simultaneously.

The new feature is that the viscosities (V; measured at a laminar flow rate of 45 reciprocal sec. with a 'Rotovisco RV100' Hake viscometer at 25 deg.C) are: VA and VB, and (VA-VB) not over 1500 cps and V (mixt.) not over 3000 cpds. The ratio vol. of A/vol. of B=0.2-2, and the cross-section of each orifice is 0.1-75 sq.mm. Also new are delivery devices useful in this method.

USE/ADVANTAGE - Method is esp. used for direct application of a specified amt. of cosmetic compsn. (including partic. materials which react together, e.g. oxidn. dye components or bleaches) to the skin or hair. It eliminates the need for a separate A/B mixing step, so is simple, less time consuming and avoids material losses.

0/2

CPI GMPI FS

FΑ AΒ

CPI: D08-B; J02-A01 MC

ABEO GB 2180215 B UPAB: 19930922

A process for forming in situ a cosmetic compsn for direct application to the skin and hair, by mixing two constituents A and B to be simultaneously dispensed comprising the steps of : (a) taking two adjacent containers each having a wall which is deformable such that simultaneous compression can be effected by successive squeezing actions by the user so as to dispense the contents of said containers and having outflow orifices which are either close together or able to be brought into proximity with each other such that their outflow jets meet each other, said outflow orifices being adapted to be opened simultaneously and each having a cross-section of from 0.1 to 75 mm2; (b) selecting constituents A and B which have individually and when mixed respective viscosities eta A, eta B, eta (A+B), which, when measured under laminar flow conditions at a rate of 45 s -1 using a HAKE 'ROTOVISCO RV 100' viscometer at 25 deg C, fulfil the following conditions:

eta A is up to 1,500 cP,

eta B is up to 1,500 cP,

eta A - eta B is up to 1,000 cP,

eta A + B is up to 3,000 cP,

and of which said first constituent or said second constituent includes at least one foaming agent; (c) taking volumes of the constituents A and B which satisfy the relationship: Volume of A/volume of B is 0.2-2, and which provide for the weight of the foaming agent(s) in said first constituent to be 0.1 to 30% of the total weight of the compsn; (d) packaging the constituents A and B separately in respective ones of said containers.

4823985 A UPAB: 19930922

A hair colouring preparation comprises 2 components, A and B, stored separately in 2 adjacent containers, whose walls are sufficiently flexible to allow the components to be squeezed out. The components flow through separate, adjacent orifices having a cross-section 0.1-75 mm2 so that A and B mix immediately outside the orifices. The viscosity of each component is at least 1,500 cP and the mixt. has a viscosity at least 3,000 cP. One component contains 0.1-30 wt%, pref. 1-20 wt%, referred to preparation, of a foaming agent. The vol. ratio A:B is 0.2-2.

Each container is pref. a sealed bag of a flexible material.

USE/ADVANTAGE - Esp. for bleaching using NH3 and H2O2; loss of

 ${
m NH3}$ is avoided allowing a better bleaching effect to be obtd. then previously.

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L142 ANSWER 27 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1986-338925 [51]
                        WPIX
DNC C1986-147057
     Alginate dental impression compsns. contg. polyacrylamide powder - to
TΤ
     enhance ag. mixing characteristics, are improved by using a small amt. of
     finer powder.
DC
     A11 A14 A96 D21
     PELLICO, M A
IN
     (LACL-N) LACLEDE PROF PROD I
PA
CYC
                   A 19861202 (198651)*
PΙ
     US 4626558
                                                4p
ADT US 4626558 A US 1985-785985 19851010
PRAI US 1985-785985
                      19851010
IC
     A61K006-10
          4626558 A UPAB: 19930922
ΑB
     US
     An orally settable, dental impression compsn. comprises 6-10 wt.% Na
     and/or K alginate; 6-12 wt.% Ca sulphite reactant 0.6-1.6 wt.% reaction
     rate retarder from phosphates, pyro-phosphates or tripolyphosphates of Na
     and/or K; filler; and 0.01-0.25 (pref. 0.02-0.1) wt.% powdered
     polyacrylamide (I) with particle size less than 300 (pref. less than 350)
     mesh.
          Pref. (I) has mol. wt. 200,000-6,000,000 (pref. 5-6 million).
     Conventional fillers, e.g. diatomaceous earth are used.
          About 1 pt. wt. powdered compsn. is mixed with 2-3 pts. wt. water to
     produce the settable material.
          USE/ADVANTAGE - Prior art compsns. which contain (I) to enhance
     smoothness characteristics upon mixing with water to obtain the impression
     material (as described in US4515913) are improved by employing finely
     sized polymer. This allows a redn. in the amt. of (I) employed and
     further the smoothness of the mixing step.
     0/0
FS
     CPI
FΑ
     AB
     CPI: A04-D04A; A10-E21A; A12-S09; A12-V02B; D08-A06
MC
L142 ANSWER 28 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1986-312953 [48]
                        WPIX
                        1986-125268 [19]; 1987-001859 [01]
CR
     1985-183481 [30];
                        DNC C1986-135299
DNN N1986-233773
TΙ
     Compsn. for controlling qum diseases contg. hydrogen
     peroxide - and crosslinked acrylic acid in gel component and
     sodium bi carbonate in separate paste phase.
DC
     A96 B05 D21 Q32 Q34
IN
     SCHAEFFER, H A
     (BLOC) BLOCK DRUG CO; (SCHA-I) SCHAEFFER H A; (CHEO) CHESEBROUGH PONDS USA
PA
     CO
CYC
     8
                   A 19861126 (198648)* EN
PΙ
     EP 202359
                                               38p
         R: DE FR GB IT
     JP 61271214
                   A 19861201 (198702)
     AU 8544459
                   Α
                     19870108 (198714)
     US 4687663
                   Α
                     19870818 (198735)
     JP 63007522
                   B 19880217 (198810)
                   A 19890718 (198933)
     CA 1257545
     US 4849213
                   A 19890718 (198936)
     US 4983379
                   A 19910108 (199105)
                                                     A61K007-20
                                                                      <--
     EP 202359
                   B1 19940112 (199403)
                                         EN
                                               32p
         R: DE FR GB IT
                                                     A61K007-20
                                                                      <---
                   G 19940224 (199409)
     DE 3587725
                                                     A61K007-16
                   B1 19971007 (199746)
                                               ·2p
                                                                      <--
     US 4687663
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ADT EP 202359 A EP 1985-108192 19850702; JP 61271214 A JP 1985-151178 19850709; US 4687663 A US 1985-745993 19850617; US 4849213 A US 1987-64880 19870619; US 4983379 A US 1989-369185 19890620; EP 202359 B1 EP 1985-108192 19850702; DE 3587725 G DE 1985-3587725 19850702, EP 1985-108192 19850702; US 4687663 B1 CIP of US 1983-471188 19830301, CIP of US 1985-737157 19850523, US 1985-745993 19850617 DE 3587725 G Based on EP 202359; US 4687663 B1 CIP of US 4528180 FDT19830301; US 1985-737157 PRAI US 1985-745993 19850617; US 1983-471188 19850523; US 1989-369185 19890620 REP A3...8847; FR 944506; No-SR.Pub; US 4528180 IC A61K007-20; A61K033-40; B65D035-00; B65D081-32 A61K007-16; A61K007-20 ICM A61K007-18; A61K033-40; B65D035-00; ICS B65D081-32 202359 A UPAB: 19971119 AB EΡ Compsn. comprises a gel component (A) and a paste component (B). (A) consists of (by wt.) 0.1-10% H2O2; 0.05-5% water-dispersible copolymer (I) of acrylic acid crosslinked with polyallyl sucrose; 0-2% nonionic cellulose stabiliser; neutralising agent (i.e. NaOH, KOH, triethanolamine, diisopropylamine and NH3) to pH 3-6, and water. (B) consists of 2-60% NaHCO3; 0-6% NaCl, KCl, MgCl2, MgSO4, Na2SO4 or K2SO4; 2-60% humectant (II); 0.1-5% thickener stabiliser (i.e. cellulose gum and/or Mg/Al silicate); 1-30% stabiliser-polishing agent (i.e. bentonite, TiO2, SiO2 and/or MgO) and purified water. (II) is glycerin, sorbitol, polyethylene glycol, polypropylene glycol and/or ethoxylated or propoxylated lower fatty alcohol. The two components are mixed immediately before use. Alternatively component (A) can comprise (i) 0.1-10% H2O2; 0.05-5% (I); 2-80% polyol and water, or (2) 2-25% urea peroxidase; 0-5% (I) and the balance glycerin. USE/ADVANTAGE - The compsns. are useful for control of gum diseases (caused by bacterial infection). They are convenient to use; have a pleasant taste, and ensure that H202 and NaHCO3 come into contact only immediately before use (providing more consistent delivery of H2O2). (Correct entry) Dwg.0/1 FS CPI GMPI FA MC CPI: A04-A03; A04-F04; B04-B02C2; B04-C02; B04-C03; B04-D02; B05-A01A; B05-A01B; B05-C08; B10-A07; B10-E04C; B10-E04D; B12-A01; B12-L03; B12-L04; B12-M03; D08-A05 ABEO US 4687663 A UPAB: 19930922 Teeth are cleaned by (a) extruding H2O2-contq. semi-solid component as active ingredient; (b) extruding NaHCO3-contg. semi-solid component as active ingredient; (c) placing each in contact with each other on a toothbrush; and (d) brushing teeth using (a) and (b) concurrently as a cleaning medium. Pref. (a) and (b) cpds. are extruded together or separately onto the brush. Brushing takes place immediately after extrusion and emplacement. Cpd. (a) contains 0.1-10% H2O2 in a neutralised gel; and (b) contains 2-60 wt.% NaHCO3 in a paste. ADVANTAGE - Has pleasant taste, and is neat and convenient to use with max. effectiveness against gum disease. 4849213 A UPAB: 19930922 Compsn. for combatting gun disease comprises a gel and a paste. Gel comprises (a) 0.1-10 wt% of H2O2; (b) 0.05-5.0 wt% of water-dispersible copolymer of acrylic acid crosslinked with polyallyl sucrose; (c) 0-2.0 wt% of nonionic cellulose stabiliser; (d) NaOH, KOH, triethanolamine, diisopropylamino, or ammonia is neutralising agent to raise gel to pH3-6.0; and (e) purified water. Paste comprises (i) 2-60 wt% NaHCO3; (ii) 0-6 wt% of NaCl, KCl, MgCL2, MgSO4, Na2SO4, or K2SO4;

(iii) 2-60 wt% of glycerin, sorbitol, polyethylene glycol, polypropylene

glycol, propylene glycol, and/or ethoxylated (and/or) propoxylated fatty alcohol as humectant; (iv) 0.1-5% of cellulose gum, and/or magnesium aluminium silicate as thickner stabiliser; (v) 1-30 wt% of bentonite, TiO2, silica, and/or MgO as stabilising polishing agent; and (vi) purified water.

ABEQ US 4983379 A UPAB: 19930922

New compsn. against gum disease comprises (a): non-neutralised gel of 0.1-10.0% H2O2 or 2-25% urea peroxide, 0.05-5.0% acrylic acid copolymer crosslinked with polyallylsucrose; 2-80% polyol, and water, and (b); paste comprising 2-60% NaHCO3; 0-6% salt (NaCl); 2-60% humectant (glycerin); 0.1-5% thickener/ stabiliser (cellulose gum); 1-30% stabilising polisher (TiO2); F-contg. cpd. (NaF) giving 200-5000 ppm.F and water. Paste and gel are mixed immediately before use.

USE - Useful in the treatment of gum disease.

ABEQ EP 202359 B UPAB: 19940303 A composition useful in combating qum disease comprising: (a) a gel component comprising (i) 0.1 to 10% by weight of hydrogen peroxide; (ii) 0.05 to 5.0% by weight of a water-dispersible copolymer of acrylic acid cross-linked with polyallyl sucrose; (iii) 0.0 to 2.0% by weight of a nonionic cellulose stabilizer; (iv) a neutralizing agent selected from the group consisting of sodium hydroxide, potassium hydroxide, triethanolamine, disopropylamine and ammonia in an amount sufficient to raise the gel pH to about 3 to 6; and (v) purified water; (b) a paste component comprising: (i) 2 to 60% sodium bicarbonate; (ii) 0 to 6% of a salt selected from the group consisting of NaCl, KCl, MgCl2, MqSO4, Na2SO4, and K2SO4; (iii) 2 to 60% of a humectant selected from the group consisting of glycerin, sorbitol, polyethylene glycol, proplylene qlycol, polypropylene glycol, an ethoxylated lower fatty alcohol, a propoxylated lower fatty alcohol and mixtures thereof; (iv) 0.1 to 5% of a thickener stabilizer selected from the group consisting of cellulose gum, magnesium aluminum silicate and mixtures thereof; (v) 1 to 30% of a stabilizing polishing agent selected from the group consisting of bentonite, titanium dioxide, silica, magnesium oxide and mixtures thereof; and (vi) purified water; said paste component and gel component being combined immediately prior to use.

ABEQ US 4687663 B UPAB: 19971119 Method for cleaning teeth by applying active oxygen aqueous cleaning medium to the teeth and gums in the buccal cavity, comprising: (a) extruding a semi-solid component comprising H2O2 as the active ingredient; (b) extruding a second semi-solid component comprising sodium bicarbonate as the active ingredient, one of (a) and (b) being flavoured; (c) placing the components in mutual contact on a toothbrush; and (d) brushing the teeth and gums with the mixture, thus evolving active oxygen, the effervescence associated with the production of the active oxygen enabling the flavour to produce a pleasant taste to disguise the unpleasant taste of the mixture. The components are contained in a dual compartment article for storage and delivery which prevents the components from contacting each other prior to their release onto the brush, the article including a means for dispensing controlled quantities of the mixture by applying pressure. Dwq.0/0

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L142 ANSWER 29 OF 40 WPIX (C) 2002 THOMSON DERWENT
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Dwg.0/7

AN 1986-125268 [19] WPIX

CR 1985-183481 [30]; 1986-312953 [48]; 1987-001859 [01]

DNC C1986-053516

TI Compsn. for treating gum disease - comprises gel contg. hydrogen peroxide and crosslinked acrylic acid polymer and paste contg. sodium bi carbonate, salt and a humectant.

DC A96 B05 D21 Q32 Q34

IN SCHAEFFER, H A

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PA
     (BLOC) BLOCK DRUG CO; (SCHA-I) SCHAEFFER H A
CYC
     5
PΙ
     ZA 8505018
                   A 19860108 (198619)*
                                                      A61K007-20
     EP 202359
                   B1 19940112 (199403)
                                          ΕN
                                               32p
                                                                       <--
         R: DE FR GB IT
                   G 19940224 (199409)
                                                      A61K007-20
     DE 3587725
     ZA 8505018 A ZA 1985-5018 19850703; EP 202359 B1 EP 1985-108192 19850702;
ADT
     DE 3587725 G DE 1985-3587725 19850702, EP 1985-108192 19850702
FDT
     DE 3587725 G Based on EP 202359
PRAI US 1985-737157
                      19850523; US 1985-745855
                                                  19850617
REP
    FR 944506; US 4528180
     A61K000-00
IC
     ICM A61K007-20
     ICS
         B65D035-00
AB
     ZA
          8505018 A UPAB: 19971119
     Compsn. comprises a gel component (I) and a paste component (II) which are
     combined immediately prior to use. (I) contains 0.1-10 (pref. 3.0-6.5)% (all by wt.) H2O2, 0.05-5.0 (pref. 1-3)% of a water-dispersible
     copolymer of acrylic acid cross-linked with polyalkyl sucrose, 0-2.0%
     non-ionic cellulose stabiliser, a neutralising agent, which is NaOH, KOH,
     triethanol-amine, diisopropylamine or ammonia, in an amt. of sufficient to
     raise the gel Ph to 3-6 (pref. 0.3-1.5%) and purified water.
          (II) contains 2-60 (pref. 20-40)% NaHCO3, 0-6 (pref. 0-4)
          NaCl, KCl, MgCl2, MgSO4, Na2SO4 or K2SO4, 2-60 (pref. 15-25)%
     humectant, which is glycerin, sorbitol, polyethylene glycol, propylene
     glycol, polypropylene glycol, an ethoxylated lower fatty alcohol or a
     propoxylated lower fatty alcohol, 0.1-5 (pref. 1.0-2.0)% thickener
     stabiliser, which is cellulose gum and/or magnesium aluminium silicate,
     1-30 (pref. 1.5-20)% stabilising polishing agent, which is bentonite,
     titanium dioxide, silica and/or magnesium oxide, and purified water.
          USE/ADVANTAGE - The compsn. is useful for treatment of gum disease by
     the Keyes method (combination of H2O2 soln. with NaHCO3 and
     NaCl). The compsns. have pleasant taste and are neat and convenient to
     use. Contact between {\tt H2O2} and {\tt NaHCO3} is permitted only shortly
     before use thus assuring maximum effectiveness against gum disease. Using
     the container, a greater and consistent amt. of peroxide is delivered to
     the use point. If a fluorine contg. cpd. is also included (e.g. NaF or
     KF), the compsn. is also effective against caries. (Provisional basic
     previously advised in week 8614)
     Dwg.0/7
     CPI GMPI
FS
     AB
FA
     CPI: A04-A03; A04-F04; A12-S; A12-V04B; A12-W12; B04-C02A;
MC
          B04-C03B; B04-C03C; B05-A01B; B05-A03B; B05-B02A3; B05-B02C; B05-C04;
          B05-C08; B10-A04; B10-A07; B10-E04C; B11-C06;
          B12-A01; B12-L03; B12-L04; D08-B08
ABEQ EP
           202359 B UPAB: 19940303
     A composition useful in combating gum disease comprising: (a) a gel
     component comprising (i) 0.1 to 10% by weight of hydrogen
     peroxide; (ii) 0.05 to 5.0% by weight of a water-dispersible
     copolymer of acrylic acid cross-linked with polyallyl sucrose; (iii) 0.0
     to 2.0% by weight of a nonionic cellulose stabilizer; (iv) a neutralizing
     agent selected from the group consisting of sodium hydroxide, potassium
     hydroxide, triethanolamine, disopropylamine and ammonia in an amount
     sufficient to raise the gel pH to about 3 to 6; and (v) purified water;
     (b) a paste component comprising: (i) 2 to 60% sodium bicarbonate; (ii) 0
     to 6% of a salt selected from the group consisting of NaCl, KCl, MgCl2,
     MgSO4, Na2SO4, and K2SO4; (iii) 2 to 60% of a humectant selected from the
     group consisting of glycerin, sorbitol, polyethylene glycol, proplylene
     glycol, polypropylene glycol, an ethoxylated lower fatty alcohol, a
     propoxylated lower fatty alcohol and mixtures thereof; (iv) 0.1 to 5% of a
     thickener stabilizer selected from the group consisting of cellulose gum,
     magnesium aluminum silicate and mixtures thereof; (v) 1 to 30% of a
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stabilizing polishing agent selected from the group consisting of bentonite, titanium dioxide, silica, magnesium oxide and mixtures thereof; and (vi) purified water; said paste component and gel component being combined immediately prior to use. Dwq.0/7L142 ANSWER 30 OF 40 WPIX (C) 2002 THOMSON DERWENT 1986-093750 [14] WPIX DNC C1986-039987 Enzymatic absorbent bandages and pads - contg. serum activated oxido ΤI reductase enzyme for producing hydrogen peroxide on serum contact. B04 D16 D22 P32 P34 DC ΙN MONTGOMERY, R E; PELLICO, M A (LACL-N) LACLEDE PROF PRODS PA CYC 8 A 19860318 (198614)* 6p PΙ US 4576817 A 19870916 (198737) EN EP 236610 R: DE FR GB IT SE JP 62213754 A 19870919 (198743) A 19890808 (198938) CA 1258228 ADT EP 236610 A EP 1986-301800 19860313; JP 62213754 A JP 1986-58018 19860314 19840607 PRAI US 1984-618071 2.Jnl.Ref; EP 49177; US 4486408 A61F013-00; A61K037-48; A61L015-03 IC AB 4576817 A UPAB: 19930922 Enzymatic organic absorbent material for body contact applicn. contains (per g of material) 1.0-1,000 (pref. 10-500) I.U. of serum-activated oxidoreductase enzyme (I) for producing hydrogen peroxide on contact of the material with serum. (I) is pref. glucose or oxalate oxidase. The material pref. also contains 0.1-10,000 (esp. 10-500) I.U. of peroxidatic peroxidase, pref. lacto- or myelo-peroxidase. USE/ADVANTAGE - The material is typically a bandage or pad which produces a bacteriostatic effect on contact with body fluids such as serum. 0/0 FS CPI GMPI FΑ CPI: B04-B02C2; B04-C02A1; B12-A01; B12-M02D; D09-C04B MC L142 ANSWER 31 OF 40 WPIX (C) 2002 THOMSON DERWENT AN **1985-183481** [30] WPIX 1986-312953 [48]; 1987-001859 [01] CR 1986-125268 [19]; DNC C1985-080217 DNN N1985-137788 Arrangement for combating gum disease - comprising hydrogen ΤI peroxide-contg. gel and sodium bi carbonate-contg. paste stored in separate compartments of squeezable tube. DC A96 B06 D21 Q32 (SCHA-I) SCHAEFFER H A PA CYC 1 A 19850709 (198530)* PIUS 4528180 ADT US 4528180 A US 1983-471188 19830301 19850617 PRAI US 1983-471188 19830301; US 1985-745993 IC A61K007-16; B65D035-22 4528180 A UPAB: 19971119 AB US Arrangement for combatting gum disease comprises a doublecompartmented collapsible tube, one compartment contg. an H2O2-contg. gel and the other contg. an NaHCO3- contg. paste. The compartments have a common wall, and each compartment has an orifice through which the contents of the compartment can pass. These orifices are arranged adjacent to each other, so that when the tube is squeezed, equal

amounts of the paste and gel are dispensed at the same use point.

The gel comprises (a) 1-10 vol.% H2O2, (b) 0.05-1.2 vol.% water-dispersible copolymer of acrylic acid crosslinked with polyallyl sucrose, (c) 0.1-1.5 vol.% nonionic cellulose gum stabiliser, (d) purified water and (e) sufficient NaOH, KOH, triethanolamine, diisopropylamine or NH3 to provide a pH of 3-6. The gel liquifies immediately upon contact with a mildly alkaline environment contg. a strong electrolyte, thereby causing release of bactericidal nascent oxygen. The paste comprises (a) 10-50 wt.% NaHCO3, (b) 1-6 wt.% NaCl or MgSO4, (c) 1-3 wt.% cellulose gum and/or magnesium aluminium silicate as thickener-stabiliser, (d) 5-30 wt.% glycerol, sorbitol, polyethylene glycol or polypropylene glycol as humectant, (e) purified water, (f) 1-40 wt.% CaSO , Ca3(PO4)2 or hydrated Al2O3 as cleansing-polishing agent, and (g) 0.1-2.5 wt.% sodium lauryl sulphate. USE/ADVANTAGE - The gel and paste can be dispensed and used in the manner of a toothpaste to treat gum disease caused by bacterial infection. The paste and gel, which must be stored separately since the H2O2 would react with the NaHCO3, react together under buccal conditions to release bactericidally effective nascent oxygen. Compared with the prior art method of dipping a toothbrush in a supply of ${\tt H2O2}$ and then into a paste of NaHCO3, NaCl and H2O, the present arrangement allows control of the quantities delivered, more vigorous release of O2, improved penetration of active ingredients into the gums, and smoother texture and more palatable taste of t CPI GMPI AΒ CPI: A03-A01; A04-A03; A04-F04; A12-S; A12-V04; B05-A01B; B05-C08 ; B12-A01; B12-L03; B12-M02; B12-M03; D08-B08 L142 ANSWER 32 OF 40 WPIX (C) 2002 THOMSON DERWENT 1985-128264 [21] WPIX DNC C1985-055858 Powdered alginate compsn. for dental impression - contains calcium sulphate alkali metal phosphate and polyacrylamide to improve mixing with water. A11 A14 A96 D21 P32 PELLICO, M A (LACL-N) LACLEDE PROF PROD I 13 A 19850507 (198521)* US 4515913 5p EP 198131 A 19861022 (198643) ENR: AT BE CH DE FR GB IT LI NL SE JP 61254509 A 19861112 (198652) BR 8502117 A 19861209 (198704) US 4515913 A US 1983-550809 19831114; EP 198131 A EP 1985-302541 19850411; JP 61254509 A JP 1985-94567 19850430 19831114 PRAI US 1983-550809 DE 1467788; EP 126824; US 3620778 REP A61C009-00; A61K006-08; C08L005-04 4515913 A UPAB: 19930925 Compsn. comprises 6-10 wt.% sodium or potassium alginate, 6-12 wt.% calcium sulphate, 0.6-1.2 wt.% sodium or potassium phosphate, pyrophosphate or tripolyphosphate, 0.5-6.0 wt.% polyacrylamide and a filler. Pref. the polyacrylamide has M.Wt. 200000-6000000 and is used at 1.0-3.0 wt.%. USE/ADVANTAGE - The alginate compsn. is mixed with 220-280 wt.% water to form a dental impression material. The polyacrylamide improves the smooth mixing of the powdered alginate with water. 0/0

CPI GMPI FS

FΑ

FS FA

MC

ΑN

TΙ

DÇ IN

PA CYC

PΙ

ADT

ΙÇ

AB

CPI: A04-D04A; A07-A01; A10-E02; A12-V03C; D08-A MC

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L142 ANSWER 33 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1985-088321 [15]
                        WPIX
AN
DNC
    C1985-038324
TТ
     Di-enzymatic dentifrice producing hypo-thiocyanate bacterial inhibitor -
     comprises oxidisable substrate, oxido reductase enzyme, thiocyanate salt
     and lacto peroxidase.
DC
     B04 B05 D21
ΙN
     MONTGOMERY, R E; PELLICO, M A
     (LACL-N) LACLEDE PROFESSIONAL PROD
PA
CYC
    9
PΙ
                   A 19850306 (198515) * EN
                                              35p
     EP 133736
         R: CH DE FR GB IT LI NL
     JP 59231011 A 19841225 (198506)
                   A 19850827 (198537)
     US 4537764
                  A 19860114 (198605)
     US 4564519
     EP 133736
                   B 19891213 (198950)
                                         ĒΝ
         R: CH DE FR GB IT LI NL
     DE 3480691
                   G 19900118 (199004)
                                                     A61K007-28
     JP 04025924
                   B 19920506 (199222)
                                              14p
ADT EP 133736 A EP 1984-302162 19840329; US 4537764 A US 1983-501383 19830606;
     US 4564519 A US 1983-559474 19831208; JP 04025924 B JP 1984-105635
     19840523
     JP 04025924 B Based on JP 59231011
FDT
                     19810813; US 1983-501383
                                                 19830606; US 1983-559474
PRAI US 1981-292633
     19831208
REP
     1.Jnl.Ref; A3...8606; No-SR.Pub; US 4150113
IC
     ICM A61K007-28
         A61K009-68; A61K037-48
     ICS
           133736 A UPAB: 19930925
AB
     Di-enzymatic dentifrice comprises, per g, 0.015-0.6 millimole of
     oxidisable substrate (OS) and 0.5-500 international units of
     oxidoreductase (OR) enzyme specific to OS, with 0.0001-0.01 millimole
     thiocyanate salt (TS) and 0.01-50 IU lactoperoxidase (LP) in amt. at least
     2% (inIU) of amt. of OR.
            H2O2 is produced by the action of OR on OS, and intracts
     with TS and LP to produce a hypothiocyanate bacterial inhibitor.
          USE/ADVANTAGE - The dentifrice may be e.g. a powder, paste, cream,
     liq. chewing gum, chewable tablet, lozenge or floss, and does not depent
     on the naturally occurring, oral concn. of glucose, potassium thiocyanate
     or lactoperoxidase for antibacterial effectiveness
     0/0
     CPI
FS
FΑ
     AB
     CPI: B04-A06; B04-B02C2; B05-C03; B07-D03; B10-A07; B10-A22; B10-B02J;
MC
          B10-B04B; B12-A01; B12-L03; D08-B08
           133736 B UPAB: 19930925
ABEQ EP
     A di-enzymatic dentifrice containing, per gram of dentifrice, from 0.015
     to 0.6 millimole of oxidisable substrate and from 0.5 to 500 International
     Units of an oxidoreductase enzyme specific to such substrate for producing
     hydrogen peroxide upon oral utilisation of said
     dentifrice and further containing from 0.0001 to 0.01 millimole of a
     thiocyanate salt and from 0.01 to 50 International Units of
     lactoperoxidase for interacting with hydrogen peroxide
     to produce a hypothiocyanate bacterial inhibitor, wherein the
     concentration of lactoperoxidase in International Units is at least 2% of
     the concentration of the oxidoreductase enzyme in International Units to
     thereby limit the ratio of hydrogen peroxide to
     lactoperoxidase during oral utilisation of the dentifrice, and limiting
     any water present in the dentifrice, bound and unbound, to not more than
     10 wt.%, providing however for the dentifrice in chewable form, the
     unbound water is limited to an amount not more than 1.0 wt.%.
          4537764 A UPAB: 19930925
ABEQ US
     An enzyme contg. toothpaste contains (A) 0.015-0.6, pref. 0.05-0.5, esp.
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0.1-0.2 mmol beta-D-glucose and 0.5-500, pref. 1.0-100, esp. 5.0-50 I.U glucose oxidase to produce H202 when used in the mouth and (B) is stabilised against prodn. of H202 during storage by limiting the amount of water in the toothpaste to below 10 wt.%.

A non-aq carrier is suitably used for the toothpaste, e.g. glycerol or propylene glycol, usually in amounts of 45-55 wt.% The toothpaste also contains a weak organic acid together with a buffer to establish neutrality as well as usual flavourings, colourants, sweeteners, thickeners, humectants, abrasives and surfactants.

ADVANTAGE - Storage stable enzymatic toothpaste is provided, which generates reasonably predictable amount of H2O2 in the mouth.

ABEQ US 4564519 A UPAB: 19930925
Di-enzymatic chewable dentifrice contains per gram of dentifrice, 0.015 to 0.6 millimoles of oxidisable substrate; and 0.5 to 500 International Units of an oxidoreductase enzyme specific to such substrate for producing hydrogen peroxide upon oral chewing of the dentifrice; and also contg. 0.0001 to 0.01 millimoles of a thiocyanate salt, pref. sodium-, potassium- or ammon. thiocyanate or mixts. of these, and 0.01 to 50 International Units of lactoperoxidase for interacting with the hydrogen peroxide to produce a hypothiocyanate bacterial inhibitor. The concn. of the lactoperoxidase is at least 2% of the concn. of the oxidoreductase enzyme in International Units to thereby limit the ratio of hydrogen peroxide to lactoperoxidase during oral chewing of the dentifrice.

One pref. oxidisable substrate is beta-D-glucose and one pref. oxidoreductase enzyme is glucose oxidase.

ADVANTAGE - Hypothiocyanate, a bacterial inhibitor, is produced in situ, during oral chewing of the dentifrice.

L142 ANSWER 34 OF 40 WPIX (C) 2002 THOMSON DERWENT 1984-231092 [37] WPIX AN DNC C1984-097619 Settable alginate two component compsns. - contg. polyacrylamide to give TТ non-grainy, smooth texture to pre-set blended components. DC A11 A96 D21 IN PELLICO, M A PΑ (LACL-N) LACLEDE PROF PROD CYC A 19840828 (198437)* PΙ US 4468484 7p A 19841205 (198449) EN EP 126824 R: DE FR GB IT SE A 19841119 (198501) JP 59204113 US 4468484 A US 1983-490294 19830502; EP 126824 A EP 1983-305916 19830929; ADT JP 59204113 A JP 1984-15958 19840130 19801229; US 1982-378917 19820517; US 1983-490294 PRAI US 1980-220303 19830502; US 1983-550809 19831114 A3...8537; DE 1467788; GB 2090272; No-SR.Pub; US 3620778 REP A61K006-08; C08L005-04 IC4468484 A UPAB: 19930925 AΒ 2-component system which can interact to form an oral, settable, dental

2-component system which can interact to form an oral, settable, dental compsn. contains (a) an aq. paste of an alkali metal alginate (I) (Na and/or K)contg. (novel feature) 0.5-6 % by wt. (of I) of polyacrylamide; and (b) a mixt. of a slightly H2O-soluble divalent metal salt (II) and a reaction rate retarder (III) in a fluid plasticiser (IV) paste which is free of unbound H2O. Wt. ratio (II):(I) = 1.2:1, and wt. ratio (III):(IV):(II) = 0.02-0.13:0.75-2:1. (II) is CaSO4, FeSo4, ZnSO4, a divalent metal salt of a fatty acid, or mixts. (III) is an Na and/or K salt of phosphate, pyrophosphate, citrate or silicate. (IV) is glycerol, propylene glycol, polyether glycol, oleyl alcohol, light silicone oil, light mineral oil, vegetable oil, and mixts.

USE/ADVANTAGE - Incorporation of polyacrylamide into component (a) a non-grainy smooth texture to the pre-set, blended components.

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FA
     CPI: A04-D04A; A07-A01; A10-E21; A12-V03C; D08-A
MC
L142 ANSWER 35 OF 40 WPIX (C) 2002 THOMSON DERWENT
     1984-146603 [24]
                       WPIX
AN
DNC
    C1984-062005
ΤI
     Di enzymatic dentifrice - contains enzyme to produce bacterial inhibitor
     in situ for oral antiseptic properties.
DC
     B05 D21
IN
     MONTGOMERY, R E; PELLICO, M A
PA
     (LACL-N) LACLEDE PROFESSIONAL PROD
CYC
    2
                 A 19840515 (198424)*
                                              26p
PΙ
     CA 1167381
     US 4578265 A 19860325 (198615)
ADT CA 1167381 A CA 1981-392173 19811214
PRAI US 1981-292633 19810813; US 1983-559474
                                                 19831208
    A61K007-28; A61K037-48
TC
         1167381 A UPAB: 19930925
AB
     CA
     The dentifrice comprises 0.015 - 0.6 millimole oxidisable substrate (I)
     and 0.5-50 i.u. of an oxidoreductase specific to (I) for prodn. of
     H2O2 on oral appln. of the dentifrice. It also contains
     0.0001-0.01 millimole of a thiocyanate salt (II) and 0.05-20 i.u. of a
     lactoperoxidase to interact with H2O2 and to produce a
     hypothiocyanate bacterial inhibitor. These amounts are per 1g dentifrice.
     The dentifrice does not contain over 10 wt. % water, so that it is
     stabilised against H2O2 formation before oral use of the
     dentifrice.
          The dentifrice has antiseptic properties when it is used orally,
     because of the bacterial inhibitor produced in situ. It does not depend on
     the natural concn. in the oral cavity of glucose, lactoperoxidase, KCNS
     etc. for efficacy.
     0/0
    CPI
FS
FΑ
    AΒ
     CPI: B04-B02C2; B05-A01A; B05-A01B; B05-C01; B05-C03; B05-C08;
MC
          B06-D09; B07-D03; B10-A07; B10-A22; B10-B02D; B10-B02E; B10-B02J;
          B12-A01; B12-L03; D05-A02; D08-B08
L142 ANSWER 36 OF 40 WPIX (C) 2002 THOMSON DERWENT
    1983-48969K [20] WPIX
AN
DNC C1983-047575
     Two component dental compsn. of enhanced shelf-life - comprises metal
TΤ
     alginate and component comprising divalent metal salt, reaction rate
     retarder and fluid plasticiser paste.
DC
     A11 A96 D21
IN
     PELLICO, M A
     (LACL-N) LACLEDE PROFESSIONAL PROD
PΑ
CYC
    1
                 A 19830503 (198320)*
PΤ
     US 4381947
PRAI US 1980-220303 19801229; US 1982-378917 19820517; US 1983-490294
     19830502; US 1983-550809
                                19831114
     C08L005-04
IC
          4381947 A UPAB: 19930925
AB
     US
     The prepn. of an oral, settable, dental compsn. comprises interacting (A)
     an aq. paste of Na and/or K alginate; and (B) a slightly water soluble,
     divalent metal salt (I) and a reaction rate retarder (II) in a fluid
     plasticiser paste (III) free of bound water. (I) is CaSO4, FeSO4, ZnSO4
     and/or a divalent metal salt of fatty acid present in 0.5-1.2 pts.wt. per
     pt.wt. of (A). (II) is Na and/or K (pyro)phosphate, citrate and/or
     silicate present in 0.02-0.13 pts.wt. per pt. wt. of (I). (III) is
     glycerol, propylene glycol, polyether glycol, oleyl alcohol, silicone oil,
     mineral oil and/or vegetable oil, present in 0.75-2 pts.wt. per pt.wt. of
     (I).
```

Also claimed are the two component system of (A) and (B), and the dental compsn. prepd. in this way.

The containment of water from the two component system avoids the problem associated with varying water temp. and dissolved minerals. The presence of humectants and plasticisers enhances stability and impression accuracy.

FS CPI

FA AB

MC CPI: A10-E21; A10-E22; A12-V03C; D08-A

L142 ANSWER 37 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1982-55555E [27] WPIX

TI Settable alginate compsns. for taking dental impressions - comprises alginate and divalent metal salts in separate components which set after mixing.

DC A11 A96 D21

IN PELLICO, M

PA (LACL-N) LACLEDE PROFESSIONAL PROD

CYC 3

PI GB 2090272 A 19820707 (198227)* 9p

DE 3135567 A 19830317 (198312)

JP 58035105 A 19830301 (198314)

GB 2090272 B 19840502 (198418)

ADT GB 2090272 A GB 1981-28730 19810923

PRAI US 1980-220303 19801229; US 1982-378917 19820517; US 1983-490294 19830502; US 1983-550809 19831114

IC A61K006-10; C08L005-04

AB GB 2090272 A UPAB: 19930915

A two component settable dental compsn. comprises (i) an aqueous paste A contg. sodium alginate and/or potassium alginate and (ii) a paste B contg. a divalent metal salt and a reaction rate retarder in a fluid plasticiser, formulated in such a way that a preselected quantity of it contains 0.5-1.2 pts.wt. of metal salt per 1.0 pt. of alginate, and 0.02-0.13 pts. reaction rate retarder and 0.75-2.0 pts. plasticiser per 1.0 pt. of metal salt.

The compsns. can be used in the mouth for taking impressions for use in denture construction, or as study models in orthodontic treatment, and as corrective materials in all types of secondary impressions. They are prepd. simply by mixing appropriate quantities of the two pastes. They are convenient and reliable and give more reproducible results than compsns. made up with tap water, whose performance depends on water compsn. and temp.

FS CPI

FA AB

MC CPI: A08-P01; A10-E21; A12-V03C; D08-A

ABEQ GB 2090272 B UPAB: 19930915

A two-component system interactable to form an oral, settable, dental composition comprising: (i) Component A containing sodium alginate or potassium alginate or a mixture thereof in an aqueous paste; and (ii) Component B containing a slightly water soluble, divalent metal salt and a reaction rate retarder in a fluid plasticiser paste, said Component B being so formulated that a pre-selected quantity thereof contains from 0.05 to 1.2 parts by weight of divalent metal salt per 1.0 part by weight of alkali metal alginate in Component A, said reaction rate retarder being present in an amount from 0.02 to 0.13 part by weight per 1.0 part by weight of said divalent metal salt, and said fluid plasticiser being present in an amount from 0.75 to 2 parts by weight per 1.0 part by weight of said divalent metal salt.

L142 ANSWER 38 OF 40 WPIX (C) 2002 THOMSON DERWENT

AN 1981-75599D [41] WPIX

TI Thermally reversible agar gel topical dressing for burns etc. - contains di ethylene glycol to lower gelation temp. of sol obtd. when gel is

heated. DC D22 E17 ΙN PELLICO, M A (LACL-N) LACLEDE PROFESSIONAL PROD PA CYC A 19810922 (198141)* PΙ US 4291025 5p PRAI US 1980-139500 19800411 IC A01N031-00; A61K031-70 AΒ 4291025 A UPAB: 19930915 Dressing comprises 5-12 (esp. 8-10) wt.% agar, 20-75 (esp. 40-55) wt.% diethylene glycol, and water to 100%, is new. Pref. the gel also includes a strengthening agent chosen from sodium borate, potassium borate, potassium sulphate and/or zinc sulphate. The dressing is for coating on burn area or other area of skin impairment. The gel is thermally reversible, i.e. on heating it forms a sol., and the presence of the diethylene glycol reduces the gelation temp. of the resulting sol. to below 49 deg.C (usually 24-49 deg.C), allowing the sol. to be cooled and applied to the burn or wound when it is at a tissue compatible low temp., following which the sol. resets to a gel on the skin. The diethylene glycol also functions as a plasticiser for the gel, and as a humectant to assist the gel dressing in absorbing fluids from the burn or wound. It is postulated that the diethylene glycol also contributes antibacterial properties. FS CPI FΑ AB MC CPI: D09-C; E10-E04J L142 ANSWER 39 OF 40 WPIX (C) 2002 THOMSON DERWENT AN 1981-43945D [24] WPIX Storage-stable antiseptic dentifrice compsn. - contg. aminoacid, TΙ oxido-reductase enzyme and non-aq. carrier. DC B05 D16 D21 ΙN MONTGOMERY, R E; PELLICO, M A (LACL-N) LACLEDE PROFESSIONAL PROD PA CYC 1 US 4269822 A 19810526 (198124)* PΙ PRAI US 1979-59243 19790720; US 1980-182384 19800829 A61K007-22; A61K031-19; A61K037-50 IC .4269822 A UPAB: 19930915 AΒ Antiseptic dentifrice contg. (by wt.) 0.01-0.5% of an oxidisable amino-acid (I) and 50-1000 I.U. of an oxidoreductase enzyme (II) (specific to (I) for producing NH3/H2O2 on oral applicn.) is stabilised against premature prodn. of NH3/H2)2 by incorporation of 30-60% of a non-aq. fluid carrier (III). In addn. the dentifrice contains not more than 10% H2O. (I) may be any D- or L-amino-acid, or glycine. (III) is pref. glycerol or propylene glycol. Prefd. compsns. contain (by wt.) 45-55% (III), and also 4-6% of a buffer (e.g. NaHCO3), 20-60% abrasive polishing agent, and 0.5-5% of a surfactant (pref. a protein surfactant of dioctyl Na sulphosuccinate). Compsn. is pref. a toothpaste. The enzyme system is only activated in the mouth, so premature formation of H2O2 and NH3 on storage, etc. is avoided. FS CPI FA AB CPI: B04-B02C2; B10-B02B; B10-E04C; B12-L03; D08-B08 MC L142 ANSWER 40 OF 40 WPIX (C) 2002 THOMSON DERWENT AN 1976-53831X [28] WPIX Package for dispensing warm iodine contg. antiseptic compsns - contains ΤI iodide soln and separate hydrogen peroxide soln. DC D22 Q32 (REXA) DART IND INC PA

CYC 1

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A 19760629 (197628)*
PΙ
     US 3966090
                     19690217; US 1972-263807
PRAI US 1969-799978
                                                 19720619
IC
    A61K033-18; B65D035-22
          3966090 A UPAB: 19930901
AΒ
     US
     A package adapted for the dispensing of an antiseptic iodine-contg.
     compsn. comprises a pressure-tight container with means to maintain two
     ingredients isolated from each other, the first ingredient comprising 2\text{--}50
     wt. % of potassium or sodium iodide, and the second ingredient comprising
     2-30 wt. % hydrogen peroxide, a liquefied gaseous
     propellant in at least one of the ingredients and valve means
     communicating with both ingredients adapted to dispense a heated compsn.
     contg. free iodine. As the compsn. is dispensed in the warmed state the
     cleaning and antiseptic action is improved. Compsn. contg. a surfactant
     have the added advantage of causing no staining of the skin and may be
     used to clean surgeons hands prior to operations, in the treatment of acne
     and dandruff and in general antiseptic usages. The iodine source may be
     ammonium iodide, amine iodides, other metal iodides are quat. iodide
     salts. The peroxy cpd. may be an organic or inorganic peroxide.
FS
     CPI GMPI
     AB
FA
MC
     CPI: D09-A01
=> d his
     (FILE 'HOME' ENTERED AT 10:12:20 ON 02 OCT 2002)
                SET COST OFF
     FILE 'REGISTRY' ENTERED AT 10:12:34 ON 02 OCT 2002
              1 S HYDROGEN PEROXIDE/CN
L1
              1 S CARBAMIDE PEROXIDE/CN
L2
              9 S 7722-84-1/CRN AND 57-13-6/CRN
L3
L4
              4 S L3 AND (2/NC OR NA/ELS)
L5
              4 S L2, L4
     FILE 'HCAPLUS' ENTERED AT 10:14:31 ON 02 OCT 2002
L6
          66126 S L1
         158820 S HYDROGEN PEROXIDE OR H2O2
L7
L8
            712 S L5
            332 S (UREA OR CARBAM?) () PEROXIDE
L9
L10
            263 S UREA PEROXYHYDRATE OR HYDROPERIT# OR HYPEROL OR PERCARBAMID#
            959 S L8-L10
L11
            679 S L11 AND L6, L7
L12
            461 S L12 AND L6
L13
L14
            414 S L13 AND L8
              5 S L1-1 AND (B65D OR B67D)/IC, ICM, ICS
L15
                SEL DN 1
              4 S L15 NOT E1
L16
              5 S L12 AND (B65D OR B67D)/IC, ICM, ICS
L17
L18
              4 S L17 AND L16
              1 S L17 NOT L18
L19
              3 S L18 AND PEROX?
L20
L21
              4 S L18, L20
     FILE 'HCAPLUS' ENTERED AT 10:28:25 ON 02 OCT 2002
                S (SODIUM HYDROXIDE OR POTASSIUM HYDROXIDE)/CN
     FILE 'REGISTRY' ENTERED AT 10:28:26 ON 02 OCT 2002
              2 S (SODIUM HYDROXIDE OR POTASSIUM HYDROXIDE)/CN
L22
     FILE 'HCAPLUS' ENTERED AT 10:28:26 ON 02 OCT 2002
L23
          71883 S L22
         464397 S (SODIUM OR NA OR POTASSIUM OR K) () HYDROXIDE OR NAOH OR KOH
L24
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L25
              2 S L23, L24 AND L21
L26
              4 S L21, L25
L27
         160579 S L6, L7, L11
L28
          20961 S L27 AND L23, L24
L29
              2'S L28 AND (B65D? OR B67D?)/IC, ICM, ICS
              4 S L26, L29
L30
L31
            200 S L27 AND APART
L32
          12734 S L27 AND SEPARAT?
              2 S L27 AND (MULTICHAMB? OR MULTICOMPART? OR MULTICAVIT? OR MULTI
L33
           1405 S L27 AND (DUAL OR TWIN OR MULTI OR MULTIPLE OR DOUBLE OR SEPAR
L34
L35
          13223 S L31-L34
           5582 S L35 AND MIX?
L36
             26 S L35 AND (DENTIFRICE OR TOOTHPASTE OR TOOTH PASTE)
             22 S L35 AND (DENTAL OR ENAMEL OR TOOTH OR TEETH) (L) (BLEACH? OR WH
L39
             36 S L37, L38
L40
             10 S L36 AND L39
                SEL AN 10
             9 S L40 NOT E2-E3
L41
             13 S L30, L41
             25 S L39 NOT L40, L41, L42
                SEL DN AN 1 4 6 8 10 12 13 14 16 17 18 20 21 22
             14 S E4-E45 AND L43
                SEL DN AN L43 15
              1 S E46-E48 AND L43
             28 S L42, L44, L45
             25 S L35 AND L46
L48
             3 S L46 NOT L47
L49
             28 S L47, L48
             28 S L49 AND (?CHAMBER? OR ?CHAMBRE? OR ?COMPARTMENT? OR DISPENS?
L50
     FILE 'REGISTRY' ENTERED AT 10:46:19 ON 02 OCT 2002
L51
              1 S PROPYLENE GLYCOL/CN
              1 S GLYCERIN/CN
L52
L53
              1 S SODIUM FLUORIDE/CN
                E KLUCEL/CN
              1 S E18
                E CAB-O-SIL/CN
              1 S E4
L56
              1 S POTASSIUM NITRATE/CN
L57
              3 S 7697-37-2/CRN AND K/ELS AND 2/NC
     FILE 'HCAPLUS' ENTERED AT 10:48:27 ON 02 OCT 2002
L58
          58212 S L51 OR PROPYLENEGLYCOL OR PROPYLENE GLYCOL OR PROPANEDIOL
         143990 S L52 OR GLYCERIN# OR GLYCEROL OR PROPANETRIOL
L59
L60
          39017 S L53 OR (NA OR SODIUM) () FLUORIDE OR NAF
           6470 S L54 OR KLUCEL GF
L61
           7919 S HYDROXYPROPYLCELLULOSE OR HYDROXYPROPYL CELLULOSE OR HYDROXY(
L62
           2233 S HPC
L63
         244467 S L55 OR CAB O SIL () (3H5 OR EH 5)
L64
L65
        573932 S SILICA OR SIO2 OR SILICON DIOXIDE
          31836 S L56 OR L57 OR KNO3 OR (K OR POTASSIUM)()NITRATE
L66
L67
             20 S L58-L66 AND L50
             28 S L50, L67
L68
           1419 S L28 AND L58-L66
L70
            347 S L69 AND L35
            226 S L70 AND MIX?
L71
              6 S L71 AND (1 OR 62 OR 63 OR 46)/SC, SX
L72
                SEL DN AN 1 5
              2 S E1-E6 AND L72
L73
             4 S L70 AND (1 OR 62 OR 63 OR 46)/SC, SX NOT L72
L74
                SEL DN AN 2 3
             2 S L74 AND E7-E12
L75
            29 S L68, L73, L75
L76
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E PELLICO M/AU
             29 S E4,E5
L77
             21 S L77 AND L6-L21, L23-L50, L58-L76
L78
                SEL DN AN 2 3 4 5 11
              5 S L78 AND E1-E15
L79
L80
             24 S L77 NOT L79
L81
             34 S L76, L79
                SEL HIT RN
     FILE 'REGISTRY' ENTERED AT 11:02:52 ON 02 OCT 2002
L82
             10 S E16-E25
L83
             15 S L1, L5, L51-L57, L82
     FILE 'REGISTRY' ENTERED AT 11:03:41 ON 02 OCT 2002
     FILE 'HCAPLUS' ENTERED AT 11:04:05 ON 02 OCT 2002
     FILE 'WPIX' ENTERED AT 11:08:04 ON 02 OCT 2002
                E A61K033/IC, ICM, ICS
L84
            319 S E118-E120
                E A61K033-40/ICA, ICI
              7 S E3, E4
L85
L86
               2 S E28
          23893 S (B05-C08 OR C05-C08 OR "E31-E" OR B10-A04 OR B10-A04 OR C10-A
L87
L88
          26212 S L7
            432 S L9 OR L10
L89
          14776 S 1732/DRN OR R01732/DCN
L90
L91
            262 S R04169/DCN
L92
            458 S L88, L90 AND L89, L91
              3 S L92 AND (B65D OR B67D)/IC, ICM, ICS, ICA, ICI
L93
            295 S (B65D OR B67D)/IC, ICM, ICS, ICA, ICI AND L84-L91
L94
             13 S L94 AND (P910 OR P911 OR P912 OR P913 OR P923)/MO,M1,M2,M3,M4
L95
             13 S L94 AND (A12-V02B OR A12-V04B OR B12-L03 OR C12-L03 OR B14-N0
L96
                E A61K007-16/IC, ICM, ICS
L97
           6858 S E3-E41
                E A61K007-16/ICA, ICI
L98
            189 S E3-E12
              1 S E34
L99
L100
              7 S L94 AND L97-L99
             17 S L93, L95, L96, L100
L101
                SEL DN AN 5 6 10 14 16
               5 S L101 AND E1-E14
L102
            230 S L84-L91 AND (Q32 OR Q34)/DC
L103
             10 S L103 AND (P910 OR P911 OR P912 OR P913 OR P923)/M0,M2,M3,M4,M
L104
L105
             12 S L103 AND (A12-V02B OR A12-V04B OR B12-L03 OR C12-L03 OR B14-N
             13 S L103 AND A61K007/IC, ICM, ICS, ICA, ICI
L106
             22 S L104-L106
L107
L108
              9 S L107 NOT L101
                SEL DN AN 8
L109
              1 S L108 AND E15-E17
              6 S L102, L109
L110
                E PELLICO M/AU
L111
             19 S E3, E4
L112
             12 S L111 AND L84-L110
             18 S L110, L112
L113
L114
              7 S L111 NOT L113
L115
             25 S L113, L114
          24623 S HYDROGEN PEROXIDE OR 1732/DRN OR R01732/DCN
L116
            388 S (UREA OR UREA HYDROGEN OR CARBAM?) () PEROXIDE
L117
            117 S L10
L118
L119
            402 S L116 AND L117, L118, L91
             45 S L119 AND (DUAL OR TWIN OR TWO OR 2 OR MULTI OR MULTIPLE OR DO
L120
              O S L119 AND (MULTICOMPARTMENT? OR MULTIPARTITION? OR MULTICHAMB?
L121
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SEL L120 DN AN 1 38 41 42 43 44 45
L122 .
              7 S L120 AND E1-E15
L123
             30 S L115, L122
              2 S L119 AND (Q32 OR Q34)/DC
L124
              3 S L119 AND (B65D? OR B67D?)/IC, ICM, ICS, ICA, ICI
L125
              1 S L119 AND N101/M0, M1, M2, M3, M4, M5, M6
L126
            251 S L116-L118 AND (N101/M0,M1,M2,M3,M4,M5,M6 OR (Q32 OR Q34)/DC O
'L127
L128
            128 S L116-L118 AND (DUAL OR TWIN OR TWO OR 2 OR MULTI OR MULTIPLE
             1 S L116-L118 AND (MULTICOMPARTMENT? OR MULTIPARTITION? OR MULTIC
L129
L130
             10 S L124-L129 AND L123
L131
             30 S L123, L130
L132
              1 S L124, L125, L125, L129 NOT L131
            357 S L127, L128 NOT L124-L126, L129-L132
L133
             88 S L133 AND (A61C OR A61K OR A61J)/IC, ICM, ICS, ICA, ICI
L134
L135
             9 S L133 AND (P910 OR P911 OR P912 OR P913 OR P923)/M0,M1,M2,M3,M
             16 S L133 AND (A12-V02B OR A12-V04B OR A12-V03C1 OR B12-L03 OR C12
L136
             96 S L134-L136
L137
             38 S L137 NOT (KERATIN? OR HAIR)/TI
L138
                SEL DN AN 10 18 21 22 24 27 29 32 34 38
             10 S L138 AND E16-E38
L139
             40 S L131, L139
L140
             40 S L84-L139 AND L140
L141
             40 S L111, L141
L142
     FILE 'WPIX' ENTERED AT 12:00:39 ON 02 OCT 2002
     FILE 'BIOBUSINESS' ENTERED AT 12:01:10 ON 02 OCT 2002
              0 S DISCUS DENTAL
L143
                E DISCUS/CS
              3 S DAY WHITE OR DAYWHITE
L144
L145
              O S (NIGHT OR NITE) () WHITE OR NIGHTWHITE OR NITEWHITE
             40 S ULTRADENT
L146
              0 S ULTRA DENT
L147
                E ULTRA/CS
                E DISCUS/CO
                E ULTRA/CO
             40 S E48
L148
L149
             40 S L146, L148
             13 S L149 NOT PATENT/ST
L150
     FILE 'PROMT' ENTERED AT 12:04:16 ON 02 OCT 2002
                E ULTRA/CO
                E ULTRADENT/CO
              1 S E3, E4
L151
                E DISCUS/CO
              3 S E10-E11
L152
L153
              9 S ULTRADENT OR ULTRA DENT
              9 S L151, L153
L154
             14 S DISCUS DENTAL
L155
L156
            119 S L144, L145
              0 S L154 AND L155, L156
L157
            275 · S L154 OR OPALES?
L158
              1 S L158 AND L155, L156
L159
     FILE 'CEN' ENTERED AT 12:06:17 ON 02 OCT 2002
              0 S L153
L160
                E ULTRA/CO
                E ULTRA/CS
     FILE 'CBNB' ENTERED AT 12:06:54 ON 02 OCT 2002
                E ULTRA/CO
L161
              1 S E36
L162
              1 S E37
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